

GenCore version 5.1.4\_p5\_4578  
Copyright (c) 1993 - 2003 CompuGen Ltd.

CM nucleic nucleic search, using sw model

Run on: March 18, 2003, 10:54:41 : Search time 849.994 Seconds  
(without alignment's)  
400.142 Million cell updates/sec

Title: us-09-900-115-2

Perfect score: 21  
Sequence: 1 qaaccatgaacacccacccq 21

Scoring table: IDENTITY\_NOR  
gapop 10.0, gapext 1.0

Searched: 16154066 seqs, 807743376 residues

Total number of hits satisfying chosen parameters: 102860

Minimum DB seq length: 0  
Maximum DB seq length: 50

Post-processing: Minimum Match 0%  
Maximum Match 100%  
Listing first 1000 summaries

Database :

EST:\*

1: em\_estbta:\*

2: em\_estbta:\*

3: em\_estbta:\*

4: em\_estbta:\*

5: em\_estbta:\*

6: em\_estbta:\*

7: em\_estbta:\*

8: em\_estbta:\*

9: qb\_est1:\*

10: qb\_est2:\*

11: qb\_est3:\*

12: qb\_est3:\*

13: qb\_est4:\*

14: qb\_est4:\*

15: em\_estbta:\*

16: em\_estbta:\*

17: qb\_gss:\*

18: em\_gss\_hum:\*

19: em\_gss\_inv:\*

20: em\_gss\_ptn:\*

21: em\_gss\_vrt:\*

22: em\_gss\_hum:\*

23: em\_gss\_hum:\*

24: em\_gss\_mus:\*

25: em\_gss\_other:\*

26: em\_gss\_pro:\*

27: em\_gss\_red:\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

# SUMMARIES

Result	No.	Score	Query Match	Length	DB ID	Description
c	1	13.6	64.8	50	A0102729	A0102729 A0102729
c	2	13.4	63.8	50	A0104812	A0104812 A0104812
c	3	13.2	62.9	50	A0103580	A0103580 A0103580
c	4	12.8	61.0	24	A2761059	A2761059 IM0555108
c	5	12.6	60.0	50	A0104453	A0104453 A0104453
c	6	12.6	60.0	50	A0104454	A0104454 A0104454

A0104457	A0104457	50	9	A0104457	60.0	12.6	7	12.6	60.0
A0104460	A0104460	50	9	A0104460	60.0	12.6	8	12.6	60.0
A0104462	A0104462	50	9	A0104462	60.0	12.6	9	12.6	60.0
N94609	zb79304.s1	35	14	N94609	59.0	12.4	10	12.4	59.0
U17523	ust_m54.The	29	14	U17523	58.1	12.2	11	12.2	58.1
AA687114	nv59d10.s	43	9	AA687114	58.1	12.2	12	12.2	58.1
A1520679	1106c03.x	43	9	A1520679	58.1	12.2	13	12.2	58.1
A2336303	1M0066030	19	17	A2336303	57.1	12	14	12	57.1
A1567849	tg87e07.x	28	9	A1567849	57.1	12	15	12	57.1
B6701002	602682184	43	12	B6701002	57.1	12	16	12	57.1
A2452075	1M0251016	44	17	A2452075	57.1	12	17	12	57.1
A2775193	2M0007716	22	17	A2775193	56.2	11.8	18	11.8	56.2
A1044327	Homo_Sapi	35	2	HS0009777	56.2	11.8	19	11.8	56.2
A1689454	tx94c06.x	37	9	A1689454	56.2	11.8	20	11.8	56.2
A2460654	1M0266101	41	17	A2460654	56.2	11.8	21	11.8	56.2
A2463427	1M0141802	42	17	A2463427	56.2	11.8	22	11.8	56.2
A2463427	1M0141802	43	9	A2463427	56.2	11.8	23	11.8	56.2
A2463427	1M0141802	43	9	A2463427	56.2	11.8	24	11.8	56.2
A2463427	1M0141802	43	9	A2463427	56.2	11.8	25	11.8	56.2
A2463427	1M0141802	43	9	A2463427	56.2	11.8	26	11.8	56.2
A2463427	1M0141802	43	9	A2463427	56.2	11.8	27	11.8	56.2
A2463427	1M0141802	43	9	A2463427	56.2	11.8	28	11.8	56.2
A2463427	1M0141802	43	9	A2463427	56.2	11.8	29	11.8	56.2
A2463427	1M0141802	43	9	A2463427	56.2	11.8	30	11.8	56.2
A2463427	1M0141802	43	9	A2463427	56.2	11.8	31	11.8	56.2
A2463427	1M0141802	43	9	A2463427	56.2	11.8	32	11.8	56.2
A2463427	1M0141802	43	9	A2463427	56.2	11.8	33	11.8	56.2
A2463427	1M0141802	43	9	A2463427	56.2	11.8	34	11.8	56.2
A2463427	1M0141802	43	9	A2463427	56.2	11.8	35	11.8	56.2
A2463427	1M0141802	43	9	A2463427	56.2	11.8	36	11.8	56.2
A2463427	1M0141802	43	9	A2463427	56.2	11.8	37	11.8	56.2
A2463427	1M0141802	43	9	A2463427	56.2	11.8	38	11.8	56.2
A2463427	1M0141802	43	9	A2463427	56.2	11.8	39	11.8	56.2
A2463427	1M0141802	43	9	A2463427	56.2	11.8	40	11.8	56.2
A2463427	1M0141802	43	9	A2463427	56.2	11.8	41	11.8	56.2
A2463427	1M0141802	43	9	A2463427	56.2	11.8	42	11.8	56.2
A2463427	1M0141802	43	9	A2463427	56.2	11.8	43	11.8	56.2
A2463427	1M0141802	43	9	A2463427	56.2	11.8	44	11.8	56.2
A2463427	1M0141802	43	9	A2463427	56.2	11.8	45	11.8	56.2
A2463427	1M0141802	43	9	A2463427	56.2	11.8	46	11.8	56.2
A2463427	1M0141802	43	9	A2463427	56.2	11.8	47	11.8	56.2
A2463427	1M0141802	43	9	A2463427	56.2	11.8	48	11.8	56.2
A2463427	1M0141802	43	9	A2463427	56.2	11.8	49	11.8	56.2
A2463427	1M0141802	43	9	A2463427	56.2	11.8	50	11.8	56.2
A2463427	1M0141802	43	9	A2463427	56.2	11.8	51	11.8	56.2
A2463427	1M0141802	43	9	A2463427	56.2	11.8	52	11.8	56.2
A2463427	1M0141802	43	9	A2463427	56.2	11.8	53	11.8	56.2
A2463427	1M0141802	43	9	A2463427	56.2	11.8	54	11.8	56.2
A2463427	1M0141802	43	9	A2463427	56.2	11.8	55	11.8	56.2
A2463427	1M0141802	43	9	A2463427	56.2	11.8	56	11.8	56.2
A2463427	1M0141802	43	9	A2463427	56.2	11.8	57	11.8	56.2
A2463427	1M0141802	43	9	A2463427	56.2	11.8	58	11.8	56.2
A2463427	1M0141802	43	9	A2463427	56.2	11.8	59	11.8	56.2
A2463427	1M0141802	43	9	A2463427	56.2	11.8	60	11.8	56.2
A2463427	1M0141802	43	9	A2463427	56.2	11.8	61	11.8	56.2
A2463427	1M0141802	43	9	A2463427	56.2	11.8	62	11.8	56.2
A2463427	1M0141802	43	9	A2463427	56.2	11.8	63	11.8	56.2
A2463427	1M0141802	43	9	A2463427	56.2	11.8	64	11.8	56.2
A2463427	1M0141802	43	9	A2463427	56.2	11.8	65	11.8	56.2
A2463427	1M0141802	43	9	A2463427	56.2	11.8	66	11.8	56.2
A2463427	1M0141802	43	9	A2463427	56.2	11.8	67	11.8	56.2
A2463427	1M0141802	43	9	A2463427	56.2	11.8	68	11.8	56.2
A2463427	1M0141802	43	9	A2463427	56.2	11.8	69	11.8	56.2
A2463427	1M0141802	43	9	A2463427	56.2	11.8	70	11.8	56.2
A2463427	1M0141802	43	9	A2463427	56.2	11.8	71	11.8	56.2
A2463427	1M0141802	43	9	A2463427	56.2	11.8	72	11.8	56.2
A2463427	1M0141802	43	9	A2463427	56.2	11.8	73	11.8	56.2
A2463427	1M0141802	43	9	A2463427	56.2	11.8	74	11.8	56.2
A2463427	1M0141802	43	9	A2463427	56.2	11.8	75	11.8	56.2
A2463427	1M0141802	43	9	A2463427	56.2	11.8	76	11.8	56.2
A2463427	1M0141802	43	9	A2463427	56.2	11.8	77	11.8	56.2
A2463427	1M0141802	43	9	A2463427	56.2	11.8	78	11.8	56.2
A2463427	1M0141802	43	9	A2463427	56.2	11.8	79	11.8	56.2

80	11	52.4	48	10	RE622110	RE622110	601440976	RE729017	601562287
81	11	52.4	50	9	AU105196	AU105196	AU105196	AZ809714	60074116
82	11	52.4	50	9	AU105443	AU105443	AU105443	AZ809714	590172_2
83	11	52.4	50	9	AU107079	AU107079	AU107079	AZ508196	18035080
84	10.8	51.4	25	17	AZ621173	AZ621173	AZ621173	AZ853979	280157821
85	10.8	51.4	29	17	AZ494893	180350822	AZ494893	AZ494893	280157821
86	10.8	51.4	32	14	H04414	Y121312.11	H04414	AZ494893	280157821
87	10.8	51.4	34	9	A1308216	Y121312.11	A1308216	A1308216	280157821
88	10.8	51.4	34	14	W09986	MA51302.11	W09986	A1308216	280157821
89	10.8	51.4	46	17	AZ796083	280305104	AZ796083	A1308216	280157821
90	10.8	51.4	40	17	AZ827492	280103821	AZ827492	A1308216	280157821
91	10.8	51.4	43	14	R71759	Y185409.81	R71759	A1308216	280157821
92	10.8	51.4	44	10	AZ832733	AZ832733	AZ832733	A1308216	280157821
93	10.8	51.4	44	17	AZ807864	280071104	AZ807864	A1308216	280157821
94	10.8	51.4	44	17	R0811570	SALK_0591	R0811570	A1308216	280157821
95	10.8	51.4	45	10	AZ857682	AZ857682	AZ857682	A1308216	280157821
96	10.8	51.4	45	17	AZ588295	AZ588295	AZ588295	A1308216	280157821
97	10.8	51.4	46	9	A1653373	180350803	A1653373	A1308216	280157821
98	10.8	51.4	46	10	RE536269	601062658	RE536269	A1308216	280157821
99	10.8	51.4	46	13	R1829941	601080075	R1829941	A1308216	280157821
100	10.8	51.4	46	17	AZ664583	180543113	AZ664583	A1308216	280157821
101	10.8	51.4	47	9	AA599900	Y253001.8	AA599900	A1308216	280157821
102	10.8	51.4	47	12	RE036368	601460534	RE036368	A1308216	280157821
103	10.8	51.4	50	9	AU103027	AU103027	AU103027	A1308216	280157821
104	10.8	51.4	50	9	AU104174	AU104174	AU104174	A1308216	280157821
105	10.8	51.4	50	9	AU104813	AU104813	AU104813	A1308216	280157821
106	10.8	51.4	50	9	AU105216	AU105216	AU105216	A1308216	280157821
107	10.8	51.4	50	9	AU105219	AU105219	AU105219	A1308216	280157821
108	10.8	51.4	50	9	AU105220	AU105220	AU105220	A1308216	280157821
109	10.8	51.4	50	9	AU105223	AU105223	AU105223	A1308216	280157821
110	10.8	51.4	50	9	AU105224	AU105224	AU105224	A1308216	280157821
111	10.8	51.4	50	9	AU105232	AU105232	AU105232	A1308216	280157821
112	10.8	51.4	50	17	A1767345	Arakidops	A1767345	A1308216	280157821
113	10.6	50.5	22	17	A2430117	180213424	A2430117	A1308216	280157821
114	10.6	50.5	25	9	AA512857	ol2403.8	AA512857	A1308216	280157821
115	10.6	50.5	26	14	RA2032	YH63105.81	RA2032	A1308216	280157821
116	10.6	50.5	28	17	AZ774408	280000909	AZ774408	A1308216	280157821
117	10.6	50.5	31	9	A1628162	Y223003.8	A1628162	A1308216	280157821
118	10.6	50.5	34	9	AA595678	os25003.8	AA595678	A1308216	280157821
119	10.6	50.5	35	10	RE534688	601232660	RE534688	A1308216	280157821
120	10.6	50.5	35	17	AZ616370	180446811	AZ616370	A1308216	280157821
121	10.6	50.5	36	17	AZ648422	180517114	AZ648422	A1308216	280157821
122	10.6	50.5	38	17	AZ642713	180505021	AZ642713	A1308216	280157821
123	10.6	50.5	40	9	A1047706	ol82605.1	A1047706	A1308216	280157821
124	10.6	50.5	40	9	AA452048	7812105.1	AA452048	A1308216	280157821
125	10.6	50.5	42	17	AZ810878	280076A17	AZ810878	A1308216	280157821
126	10.6	50.5	43	14	RA4540	Y458608.11	RA4540	A1308216	280157821
127	10.6	50.5	44	14	RE5305	REK229244.1	RE5305	A1308216	280157821
128	10.6	50.5	44	17	TA16505Q	A1374116.1	TA16505Q	A1308216	280157821
129	10.6	50.5	45	17	AZ509949	180544124	AZ509949	A1308216	280157821
130	10.6	50.5	45	17	AZ654181	180526814	AZ654181	A1308216	280157821
131	10.6	50.5	47	13	R1159168	602922660	R1159168	A1308216	280157821
132	10.6	50.5	47	17	AZ795746	280051F07	AZ795746	A1308216	280157821
133	10.6	50.5	48	17	AZ485794	180413824	AZ485794	A1308216	280157821
134	10.6	50.5	49	9	AA044935	VS84104.1	AA044935	A1308216	280157821
135	10.6	50.5	49	9	A1442488	SA27108.7	A1442488	A1308216	280157821
136	10.6	50.5	49	9	A1685633	1189609.8	A1685633	A1308216	280157821
137	10.6	50.5	49	9	A1941480	SC12011.7	A1941480	A1308216	280157821
138	10.6	50.5	49	17	AZ817223	280086819	AZ817223	A1308216	280157821
139	10.6	50.5	50	9	AU102704	AU102704	AU102704	A1308216	280157821
140	10.6	50.5	50	9	AU102997	AU102997	AU102997	A1308216	280157821
141	10.6	50.5	50	9	AU103944	AU103944	AU103944	A1308216	280157821
142	10.6	50.5	50	9	AU103949	AU103949	AU103949	A1308216	280157821
143	10.6	50.5	50	9	AU103955	AU103955	AU103955	A1308216	280157821
144	10.6	50.5	50	9	AU104381	AU104381	AU104381	A1308216	280157821
145	10.6	50.5	50	9	AU104703	AU104703	AU104703	A1308216	280157821
146	10.6	50.5	50	9	AU105344	AU105344	AU105344	A1308216	280157821
147	10.6	50.5	50	9	AU105445	AU105445	AU105445	A1308216	280157821
148	10.6	50.5	50	9	AU105761	AU105761	AU105761	A1308216	280157821
149	10.6	50.5	50	9	AA253884	mw04103.1	AA253884	A1308216	280157821
150	10.6	50.5	50	12	BE978663	BSR1306.7	BE978663	A1308216	280157821
151	10.4	49.5	25	9	A1758887	1Y94C11.8	A1758887	A1308216	280157821
152	10.4	49.5	31	9	AA878823	ol87C04.8	AA878823	A1308216	280157821

225	10.2	48.6	37	17	AZ597440	1M0411123	c 249	10	47.6	46	9	AL646748	AL646748
227	10.2	48.6	37	17	AZ808191	2M0071018	c 303	10	47.6	46	13	B1695278	B1695278
228	10.2	48.6	40	9	A1784759	1M045308.x	c 301	10	47.6	46	17	AZ782459	AZ782459
229	10.2	48.6	40	9	AA866696	vb55d04.r	c 302	10	47.6	47	9	A1644572	A1644572
230	10.2	48.6	40	14	H79514	yu49a02.s1	c 303	10	47.6	47	17	AZ446218	AZ446218
241	10.2	48.6	40	17	AZ434447	1M0220016	c 304	10	47.6	48	17	AZ409417	AZ409417
242	10.2	48.6	41	13	B1549061	603197039	c 305	10	47.6	49	9	AL775941	AL775941
243	10.2	48.6	43	9	AA198522	o177g09.s	c 306	10	47.6	49	13	BG968414	BG968414
244	10.2	48.6	43	9	A1364448	qw38d11.x	c 307	10	47.6	49	14	D42385	D42385
245	10.2	48.6	43	9	A1608816	tw21g04.x	c 308	10	47.6	40	9	AA878853	AA878853
246	10.2	48.6	43	9	AA546946	vk68a08.s	c 309	10	47.6	40	9	AA888208	AA888208
247	10.2	48.6	43	17	AA025179	fv(3)1110	c 310	10	47.6	40	9	AA894396	AA894396
248	10.2	48.6	44	13	B1767274	603057978	c 311	10	47.6	40	9	A1188838	A1188838
249	10.2	48.6	44	17	AZ478495	1M0298A07	c 312	10	47.6	40	17	AZ840540	AZ840540
250	10.2	48.6	45	2	HSM010312	Hom0 Sap1	c 313	10	47.6	41	13	B1827814	B1827814
251	10.2	48.6	45	14	H75777	yu08h02.s1	c 314	10	47.6	41	13	B1827814	B1827814
252	10.2	48.6	45	17	AZ332027	1M0606108	c 315	10	47.6	43	9	A1282013	A1282013
253	10.2	48.6	45	17	AZ766626	1M0564017	c 316	10	47.6	43	9	A1593445	A1593445
254	10.2	48.6	46	9	AA837417	o420b10.s	c 317	10	47.6	44	10	AA833320	AA833320
255	10.2	48.6	46	9	AA958824	vwb3h10.s	c 318	10	47.6	44	17	BH624245	BH624245
256	10.2	48.6	46	9	A1667536	fc41e06.x	c 319	10	47.6	45	13	B1067044	B1067044
257	10.2	48.6	46	9	A1683227	tx02b05.x	c 320	10	47.6	45	13	BH597811	BH597811
258	10.2	48.6	46	9	A1767057	w191q05.x	c 321	10	47.6	45	17	AZ434040	AZ434040
259	10.2	48.6	46	10	AV834346	AV834346	c 322	10	47.6	45	17	BH631591	BH631591
260	10.2	48.6	47	14	T49377	ya74h03.s1	c 323	10	47.6	46	9	A1091155	A1091155
261	10.2	48.6	47	17	BH256441	KG02245-3	c 324	10	47.6	46	9	A1182737	A1182737
262	10.2	48.6	47	17	BH740841	KG04972-3	c 325	10	47.6	46	9	A1641110	A1641110
263	10.2	48.6	48	17	AZ381877	1M0138E08	c 326	10	47.6	46	9	A1884025	A1884025
264	10.2	48.6	49	9	A1623465	ts19a05.x	c 327	10	47.6	46	10	AA249739	AA249739
265	10.2	48.6	49	14	B18118	1M011818	c 328	10	47.6	46	10	BH513945	BH513945
266	10.2	48.6	49	14	T74948	yc58d12.r1	c 329	10	47.6	46	12	BF123084	BF123084
267	10.2	48.6	50	9	A1792529	AL792529	c 330	10	47.6	46	14	W64843	W64843
268	10.2	48.6	50	9	AU103829	AU103829	c 331	10	47.6	47	12	BF969163	BF969163
269	10.2	48.6	50	9	AU103831	AU103831	c 332	10	47.6	47	12	BF443945	BF443945
270	10.2	48.6	50	9	AU103832	AU103832	c 333	10	47.6	48	17	AZ826757	AZ826757
271	10.2	48.6	50	9	AU103929	AU103929	c 334	10	47.6	48	17	BH798719	BH798719
272	10.2	48.6	50	9	AU104022	AU104022	c 335	10	47.6	49	9	AA657267	AA657267
273	10.2	48.6	50	9	AU104444	AU104444	c 336	10	47.6	49	9	AA727650	AA727650
274	10.2	48.6	50	9	AU104458	AU104458	c 337	10	47.6	49	9	AA877991	AA877991
275	10.2	48.6	50	9	AU105099	AU105099	c 338	10	47.6	49	9	A1288398	A1288398
276	10.2	48.6	50	9	AU105239	AU105239	c 339	10	47.6	49	9	AA113042	AA113042
277	10.2	48.6	50	9	AU105240	AU105240	c 340	10	47.6	49	9	AA231225	AA231225
278	10.2	48.6	50	9	AU105241	AU105241	c 341	10	47.6	49	9	AA427743	AA427743
279	10.2	48.6	50	9	AU105242	AU105242	c 342	10	47.6	49	9	AA429584	AA429584
280	10.2	48.6	50	9	AU105732	AU105732	c 343	10	47.6	49	12	BF970690	BF970690
281	10.2	48.6	50	9	AU106262	AU106262	c 344	10	47.6	49	13	BM126198	BM126198
282	10.2	48.6	50	9	AU106596	AU106596	c 345	10	47.6	49	17	AZ481961	AZ481961
283	10.2	48.6	50	9	AU107444	AU107444	c 346	10	47.6	49	17	BH748794	BH748794
284	10.2	48.6	50	9	AU107869	AU107869	c 347	10	47.6	49	17	BH862617	BH862617
285	10.2	48.6	50	9	AU107871	AU107871	c 348	10	47.6	50	9	AU102340	AU102340
286	10.2	48.6	50	9	AU107873	AU107873	c 349	10	47.6	50	9	AU102342	AU102342
287	10.2	48.6	50	9	AU107901	AU107901	c 350	10	47.6	50	9	AU102344	AU102344
288	10.2	48.6	50	9	AU107902	AU107902	c 351	10	47.6	50	9	AU102345	AU102345
289	10.2	48.6	50	9	AA248122	2H19697.5	c 352	10	47.6	50	9	AU102348	AU102348
290	10.2	48.6	50	10	AZ443639	1M0238A020	c 353	10	47.6	50	9	AU102376	AU102376
291	10.2	48.6	21	17	AZ443639	1M0238A020	c 354	10	47.6	50	9	AU102376	AU102376
292	10.2	48.6	25	9	A1565893	tr93q08.x	c 355	10	47.6	50	9	AU102487	AU102487
293	10.2	48.6	25	9	AA934268	SWyqL3CAN	c 356	10	47.6	50	9	AU104098	AU104098
294	10.2	48.6	28	9	A1500556	tn98c08.x	c 357	10	47.6	50	9	AU104177	AU104177
295	10.2	48.6	28	9	A1735009	as44e04.x	c 358	10	47.6	50	9	AU104182	AU104182
296	10.2	48.6	28	13	BM398053	5009-0-4-	c 359	10	47.6	50	9	AU104190	AU104190
297	10.2	48.6	28	17	AZ303959	1M0003P16	c 360	10	47.6	50	9	AU104786	AU104786
298	10.2	48.6	30	10	BF539470	601060134	c 361	10	47.6	50	9	AU104787	AU104787
299	10.2	48.6	31	9	A1055919	cx44a12.s	c 362	10	47.6	50	9	AU104788	AU104788
300	10.2	48.6	31	9	A1422071	tt157e04.x	c 363	10	47.6	50	9	AU104789	AU104789
301	10.2	48.6	31	9	A1721551	tc29b04.x	c 364	10	47.6	50	9	AU104790	AU104790
302	10.2	48.6	31	9	AA209595	mw75gd07.r	c 365	10	47.6	50	9	AU104791	AU104791
303	10.2	48.6	31	17	AZ628881	1M0481A19	c 366	10	47.6	50	9	AU104793	AU104793
304	10.2	48.6	33	17	AZ401464	1M0168L09	c 367	10	47.6	50	9	AU104794	AU104794
305	10.2	48.6	34	17	AZ471851	2M0245006	c 368	10	47.6	50	9	AU104795	AU104795
306	10.2	48.6	35	12	BE784164	601471377	c 369	10	47.6	50	9	AU104796	AU104796
307	10.2	48.6	36	9	AL639154	AL639154	c 370	10	47.6	50	9	AU104797	AU104797

372	10	47.6	50	9	A1104798	A1104798	A1104798	c 445	9.8	46.7	49	9	A1020814	ub655b04.1
373	10	47.6	50	9	A1104799	A1104799	A1104799	c 446	9.8	46.7	49	9	AA104527	mo399104.1
374	10	47.6	50	9	A1104800	A1104800	A1104800	437	9.8	46.7	49	9	A1875740	u124801.1
375	10	47.6	50	9	A1104802	A1104802	A1104802	448	9.8	46.7	49	9	AA478678	z919904.1
376	10	47.6	50	9	A1104803	A1104803	A1104803	c 449	9.8	46.7	49	9	AA624774	z919906.38
377	10	47.6	50	9	A1104871	A1104871	A1104871	c 450	9.8	46.7	50	9	A1102242	A1102242
378	10	47.6	50	9	A1105704	A1105704	A1105704	c 451	9.8	46.7	50	9	A1102578	A1102578
379	10	47.6	50	9	A1105704	A1105704	A1105704	c 452	9.8	46.7	50	9	A1102579	A1102579
380	10	47.6	50	9	A1106107	A1106107	A1106107	c 453	9.8	46.7	50	9	A1103196	A1103196
381	10	47.6	50	9	A1106109	A1106109	A1106109	c 454	9.8	46.7	50	9	A1103197	A1103197
382	10	47.6	50	9	A1106110	A1106110	A1106110	c 455	9.8	46.7	50	9	A1103199	A1103199
383	10	47.6	50	9	A1106114	A1106114	A1106114	c 456	9.8	46.7	50	9	A1103204	A1103204
384	10	47.6	50	9	A1106271	A1106271	A1106271	c 457	9.8	46.7	50	9	A1103206	A1103206
385	10	47.6	50	9	A1106347	A1106347	A1106347	c 458	9.8	46.7	50	9	A1103208	A1103208
386	10	47.6	50	9	A1106606	A1106606	A1106606	c 459	9.8	46.7	50	9	A1103474	A1103474
387	10	47.6	50	9	A1106825	A1106825	A1106825	c 460	9.8	46.7	50	9	A1103480	A1103480
388	10	47.6	50	9	A1106921	A1106921	A1106921	c 461	9.8	46.7	50	9	A1104044	A1104044
389	10	47.6	50	9	A1107006	A1107006	A1107006	c 462	9.8	46.7	50	9	A1104079	A1104079
390	10	47.6	50	9	A1107009	A1107009	A1107009	c 463	9.8	46.7	50	9	A1104086	A1104086
391	10	47.6	50	9	A1107147	A1107147	A1107147	c 464	9.8	46.7	50	9	A1104491	A1104491
392	10	47.6	50	9	A1107546	A1107546	A1107546	c 465	9.8	46.7	50	9	A1104709	A1104709
393	10	47.6	50	9	A1107587	A1107587	A1107587	c 466	9.8	46.7	50	9	A1105588	A1105588
394	10	47.6	50	9	A1107588	A1107588	A1107588	c 467	9.8	46.7	50	9	A1105638	A1105638
395	10	47.6	50	9	A1107589	A1107589	A1107589	c 468	9.8	46.7	50	9	A1105639	A1105639
396	10	47.6	50	9	A1108009	A1108009	A1108009	c 469	9.8	46.7	50	9	A1105966	A1105966
397	10	47.6	50	9	A1108071	A1108071	A1108071	c 470	9.8	46.7	50	9	A1106035	A1106035
398	10	47.6	50	10	AV969171	AV969171	AV969171	c 471	9.8	46.7	50	9	A1106285	A1106285
399	10	47.6	50	17	B0748752	SAL_K_0466	B0748752	c 472	9.8	46.7	50	9	A1106596	A1106596
400	10	47.6	50	17	B0771848	Atab_10dops	B0771848	473	9.8	46.7	50	9	A1106644	A1106644
401	9.8	46.												



c 518	9.6	45.7	47	9	A1119024	9.6	45.7	48	17	BH611485	BH611485
c 519	9.6	45.7	37	9	A1357425	9.6	45.7	48	17	BH611972	BH611972
c 520	9.6	45.7	37	9	A1558328	9.6	45.7	48	17	BH612029	BH612029
c 521	9.6	45.7	37	9	A1619702	9.6	45.7	48	17	BH612870	BH612870
c 522	9.6	45.7	37	9	A1626589	9.6	45.7	48	17	BH612921	BH612921
c 523	9.6	45.7	37	9	A1884236	9.6	45.7	48	17	BH617377	BH617377
c 524	9.6	45.7	39	9	AA961533	9.6	45.7	48	17	BH618181	BH618181
c 525	9.6	45.7	39	9	A1797893	9.6	45.7	48	17	BH618375	BH618375
c 526	9.6	45.7	39	9	A0009955	9.6	45.7	48	17	BH748194	BH748194
c 527	9.6	45.7	39	17	A2611736	9.6	45.7	48	17	BH748267	BH748267
c 528	9.6	45.7	39	17	BH866488	9.6	45.7	48	17	BH748535	BH748535
c 529	9.6	45.7	40	9	A1002051	9.6	45.7	48	17	BH748992	BH748992
c 530	9.6	45.7	40	9	A1609582	9.6	45.7	48	17	BH750103	BH750103
c 531	9.6	45.7	40	9	AA250622	9.6	45.7	48	17	BH751896	BH751896
c 532	9.6	45.7	40	17	AZ308191	9.6	45.7	48	17	BH752053	BH752053
c 533	9.6	45.7	41	9	A1596178	9.6	45.7	48	17	BH752652	BH752652
c 534	9.6	45.7	41	13	HJ050988	9.6	45.7	48	17	BH752875	BH752875
c 535	9.6	45.7	41	17	BH212967	9.6	45.7	48	17	BH752902	BH752902
c 536	9.6	45.7	41	17	BH265532	9.6	45.7	48	17	BH753678	BH753678
c 537	9.6	45.7	42	9	A1801104	9.6	45.7	49	9	AA692349	AA692349
c 538	9.6	45.7	42	17	BH624960	9.6	45.7	49	9	AA889285	AA889285
c 539	9.6	45.7	42	17	BH855809	9.6	45.7	49	9	AA986145	AA986145
c 540	9.6	45.7	43	9	AA863355	9.6	45.7	49	9	A1763118	A1763118
c 541	9.6	45.7	43	9	AA974942	9.6	45.7	49	9	A1801184	A1801184
c 542	9.6	45.7	43	9	A1038493	9.6	45.7	49	9	A1815199	A1815199
c 543	9.6	45.7	43	9	A1222474	9.6	45.7	49	9	A1876100	A1876100
c 544	9.6	45.7	43	9	A1311377	9.6	45.7	49	9	A1785672	A1785672
c 545	9.6	45.7	43	9	AA5411608	9.6	45.7	49	14	B0737802	B0737802
c 546	9.6	45.7	43	10	AA249398	9.6	45.7	49	17	A2491285	A2491285
c 547	9.6	45.7	43	17	AZ599409	9.6	45.7	49	17	A2758301	A2758301
c 548	9.6	45.7	43	17	AZ873891	9.6	45.7	49	17	A2767999	A2767999
c 549	9.6	45.7	43	17	BH213213	9.6	45.7	49	17	BH168842	BH168842
c 550	9.6	45.7	43	17	BH610453	9.6	45.7	49	17	BH168970	BH168970
c 551	9.6	45.7	44	10	BE614040	9.6	45.7	49	17	BH171096	BH171096
c 552	9.6	45.7	44	17	AZ501395	9.6	45.7	49	17	BH171188	BH171188
c 553	9.6	45.7	44	17	BH855815	9.6	45.7	49	17	BH171532	BH171532
c 554	9.6	45.7	46	9	AA761099	9.6	45.7	49	17	BH172064	BH172064
c 555	9.6	45.7	46	9	A1287842	9.6	45.7	49	17	BH172358	BH172358
c 556	9.6	45.7	46	9	A1471447	9.6	45.7	49	17	BH172551	BH172551
c 557	9.6	45.7	46	9	A1521423	9.6	45.7	49	17	BH172699	BH172699
c 558	9.6	45.7	46	9	A1593046	9.6	45.7	49	17	BH172796	BH172796
c 559	9.6	45.7	46	9	A1567157	9.6	45.7	49	17	BH172797	BH172797
c 560	9.6	45.7	46	9	A1669413	9.6	45.7	49	17	BH213710	BH213710
c 561	9.6	45.7	46	9	A1660536	9.6	45.7	49	17	BH251268	BH251268
c 562	9.6	45.7	46	14	B895117	9.6	45.7	49	17	BH251862	BH251862
c 563	9.6	45.7	46	17	AZ511270	9.6	45.7	49	17	BH252062	BH252062
c 564	9.6	45.7	46	17	AZ662404	9.6	45.7	49	17	BH252294	BH252294
c 565	9.6	45.7	47	14	B1247494	9.6	45.7	49	17	BH252649	BH252649
c 566	9.6	45.7	47	14	T98319	9.6	45.7	49	17	BH252708	BH252708
c 567	9.6	45.7	47	17	AZ311454	9.6	45.7	49	17	BH252768	BH252768
c 568	9.6	45.7	47	17	AZ838688	9.6	45.7	49	17	BH252868	BH252868
c 569	9.6	45.7	47	17	BH618704	9.6	45.7	49	17	BH610503	BH610503
c 570	9.6	45.7	47	17	A1757848	9.6	45.7	49	17	BH613458	BH613458
c 571	9.6	45.7	48	17	BH169914	9.6	45.7	49	17	BH613648	BH613648
c 572	9.6	45.7	48	17	BH170455	9.6	45.7	49	17	BH748756	BH748756
c 573	9.6	45.7	48	17	BH170799	9.6	45.7	49	17	BH749974	BH749974
c 574	9.6	45.7	48	17	BH211911	9.6	45.7	49	17	BH750758	BH750758
c 575	9.6	45.7	48	17	BH212362	9.6	45.7	49	17	BH751604	BH751604
c 576	9.6	45.7	48	17	BH214058	9.6	45.7	49	17	BH751678	BH751678
c 577	9.6	45.7	48	17	BH251093	9.6	45.7	49	17	BH752095	BH752095
c 578	9.6	45.7	48	17	BH251689	9.6	45.7	49	17	BH752242	BH752242
c 579	9.6	45.7	48	17	BH252178	9.6	45.7	49	17	BH752880	BH752880
c 580	9.6	45.7	48	17	BH252179	9.6	45.7	49	17	BH753074	BH753074
c 581	9.6	45.7	48	17	BH252187	9.6	45.7	49	17	AL758948	AL758948
c 582	9.6	45.7	48	17	BH252578	9.6	45.7	50	9	AU102584	AU102584
c 583	9.6	45.7	48	17	BH254186	9.6	45.7	50	9	AU102736	AU102736
c 584	9.6	45.7	48	17	BH254607	9.6	45.7	50	9	AU102935	AU102935
c 585	9.6	45.7	48	17	BH254917	9.6	45.7	50	9	AU103582	AU103582
c 586	9.6	45.7	48	17	BH610835	9.6	45.7	50	9	AU103830	AU103830
c 587	9.6	45.7	48	17	BH610840	9.6	45.7	50	9	AU103832	AU103832
c 588	9.6	45.7	48	17	BH610916	9.6	45.7	50	9	AU103949	AU103949
c 589	9.6	45.7	48	17	BH611118	9.6	45.7	50	9	AU103955	AU103955
c 590	9.6	45.7	48	17	BH611432	9.6	45.7	50	9	AU104189	AU104189

c 664 9.6 45.7 50 9 A0104445 A0104445 737 9.6 45.7 50 17 BH251680 SALK 0119  
c 665 9.6 45.7 50 9 A0104446 A0104446 738 9.6 45.7 50 17 BH611805 SALK 0131  
c 666 9.6 45.7 50 9 A0104610 A0104610 739 9.6 45.7 50 17 BH612727 SALK 0141  
c 667 9.6 45.7 50 9 A0104703 A0104703 740 9.6 45.7 50 17 BH617418 SALK 0164  
c 668 9.6 45.7 50 9 A0104704 A0104704 741 9.6 45.7 50 17 BH619272 SALK 0107  
c 669 9.6 45.7 50 9 A0104705 A0104705 742 9.6 45.7 50 17 BH751943 SALK 0515  
c 670 9.6 45.7 50 9 A0104706 A0104706 743 9.6 45.7 50 17 BH754379 SALK 0287  
c 671 9.6 45.7 50 9 A0104707 A0104707 744 9.6 45.7 50 17 BH862793 SALK 0904  
c 672 9.6 45.7 50 9 A0104708 A0104708 745 9.6 45.7 50 17 A1754877 A1754877  
c 673 9.6 45.7 50 9 A0104710 A0104710 746 9.6 45.7 50 17 A1758779 A1758779  
c 674 9.6 45.7 50 9 A0104780 A0104780 747 9.6 45.7 50 17 A1758779 A1758779  
c 675 9.6 45.7 50 9 A0104838 A0104838 748 9.6 45.7 50 17 BH394652 50072.2 5  
c 676 9.6 45.7 50 9 A0104839 A0104839 749 9.6 45.7 50 17 BH394652 50072.2 9  
c 677 9.6 45.7 50 9 A0104840 A0104840 750 9.6 45.7 50 17 A2413844 1M0188K02  
c 678 9.6 45.7 50 9 A0104841 A0104841 751 9.6 45.7 50 17 A2413844 1M0188K02  
c 679 9.6 45.7 50 9 A0104842 A0104842 752 9.6 45.7 50 17 A2413844 1M0188K02  
c 680 9.6 45.7 50 9 A0104843 A0104843 753 9.6 45.7 50 17 A2413844 1M0188K02  
c 681 9.6 45.7 50 9 A0104973 A0104973 754 9.6 45.7 50 17 A1049424 1M0188K02  
c 682 9.6 45.7 50 9 A0105172 A0105172 755 9.6 45.7 50 17 A1049424 1M0188K02  
c 683 9.6 45.7 50 9 A0105173 A0105173 756 9.6 45.7 50 17 A1049424 1M0188K02  
c 684 9.6 45.7 50 9 A0105200 A0105200 757 9.6 45.7 50 17 A1049424 1M0188K02  
c 685 9.6 45.7 50 9 A0105203 A0105203 758 9.6 45.7 50 17 A1049424 1M0188K02  
c 686 9.6 45.7 50 9 A0105208 A0105208 759 9.6 45.7 50 17 A1049424 1M0188K02  
c 687 9.6 45.7 50 9 A0105446 A0105446 760 9.6 45.7 50 17 A1049424 1M0188K02  
c 688 9.6 45.7 50 9 A0105739 A0105739 761 9.6 45.7 50 17 A1049424 1M0188K02  
c 689 9.6 45.7 50 9 A0105740 A0105740 762 9.6 45.7 50 17 A1049424 1M0188K02  
c 690 9.6 45.7 50 9 A0105741 A0105741 763 9.6 45.7 50 17 A1049424 1M0188K02  
c 691 9.6 45.7 50 9 A0105799 A0105799 764 9.6 45.7 50 17 A1049424 1M0188K02  
c 692 9.6 45.7 50 9 A0106644 A0106644 765 9.6 45.7 50 17 A1049424 1M0188K02  
c 693 9.6 45.7 50 9 A0106646 A0106646 766 9.6 45.7 50 17 A1049424 1M0188K02  
c 694 9.6 45.7 50 9 A0106731 A0106731 767 9.6 45.7 50 17 A1049424 1M0188K02  
c 695 9.6 45.7 50 9 A0106951 A0106951 768 9.6 45.7 50 17 A1049424 1M0188K02  
c 696 9.6 45.7 50 9 A0107834 A0107834 769 9.6 45.7 50 17 A1049424 1M0188K02  
c 697 9.6 45.7 50 9 A0107835 A0107835 770 9.6 45.7 50 17 A1049424 1M0188K02  
c 698 9.6 45.7 50 9 A0107836 A0107836 771 9.6 45.7 50 17 A1049424 1M0188K02  
c 699 9.6 45.7 50 9 A0107837 A0107837 772 9.6 45.7 50 17 A1049424 1M0188K02  
c 700 9.6 45.7 50 9 A0107838 A0107838 773 9.6 45.7 50 17 A1049424 1M0188K02  
c 701 9.6 45.7 50 9 A0107839 A0107839 774 9.6 45.7 50 17 A1049424 1M0188K02  
c 702 9.6 45.7 50 9 A0107841 A0107841 775 9.6 45.7 50 17 A1049424 1M0188K02  
c 703 9.6 45.7 50 9 A0107842 A0107842 776 9.6 45.7 50 17 A1049424 1M0188K02  
c 704 9.6 45.7 50 9 A0107843 A0107843 777 9.6 45.7 50 17 A1049424 1M0188K02  
c 705 9.6 45.7 50 9 A0107844 A0107844 778 9.6 45.7 50 17 A1049424 1M0188K02  
c 706 9.6 45.7 50 9 A0107845 A0107845 779 9.6 45.7 50 17 A1049424 1M0188K02  
c 707 9.6 45.7 50 9 A0107846 A0107846 780 9.6 45.7 50 17 A1049424 1M0188K02  
c 708 9.6 45.7 50 9 A0107847 A0107847 781 9.6 45.7 50 17 A1049424 1M0188K02  
c 709 9.6 45.7 50 9 A0107850 A0107850 782 9.6 45.7 50 17 A1049424 1M0188K02  
c 710 9.6 45.7 50 9 A0107851 A0107851 783 9.6 45.7 50 17 A1049424 1M0188K02  
c 711 9.6 45.7 50 9 A0107852 A0107852 784 9.6 45.7 50 17 A1049424 1M0188K02  
c 712 9.6 45.7 50 9 A0107853 A0107853 785 9.6 45.7 50 17 A1049424 1M0188K02  
c 713 9.6 45.7 50 9 A0107854 A0107854 786 9.6 45.7 50 17 A1049424 1M0188K02  
c 714 9.6 45.7 50 9 A0107855 A0107855 787 9.6 45.7 50 17 A1049424 1M0188K02  
c 715 9.6 45.7 50 9 A0107860 A0107860 788 9.6 45.7 50 17 A1049424 1M0188K02  
c 716 9.6 45.7 50 9 A0107864 A0107864 789 9.6 45.7 50 17 A1049424 1M0188K02  
c 717 9.6 45.7 50 9 A0107867 A0107867 790 9.6 45.7 50 17 A1049424 1M0188K02  
c 718 9.6 45.7 50 9 A0107874 A0107874 791 9.6 45.7 50 17 A1049424 1M0188K02  
c 719 9.6 45.7 50 9 A0107875 A0107875 792 9.6 45.7 50 17 A1049424 1M0188K02  
c 720 9.6 45.7 50 9 A0107876 A0107876 793 9.6 45.7 50 17 A1049424 1M0188K02  
c 721 9.6 45.7 50 9 A0107878 A0107878 794 9.6 45.7 50 17 A1049424 1M0188K02  
c 722 9.6 45.7 50 9 A0107879 A0107879 795 9.6 45.7 50 17 A1049424 1M0188K02  
c 723 9.6 45.7 50 9 A0107880 A0107880 796 9.6 45.7 50 17 A1049424 1M0188K02  
c 724 9.6 45.7 50 9 A0107881 A0107881 797 9.6 45.7 50 17 A1049424 1M0188K02  
c 725 9.6 45.7 50 9 A0108010 A0108010 798 9.6 45.7 50 17 A1049424 1M0188K02  
c 726 9.6 45.7 50 9 A0108016 A0108016 799 9.6 45.7 50 17 A1049424 1M0188K02  
c 727 9.6 45.7 50 9 A0108017 A0108017 800 9.6 45.7 50 17 A1049424 1M0188K02  
c 728 9.6 45.7 50 9 A0108018 A0108018 801 9.6 45.7 50 17 A1049424 1M0188K02  
c 729 9.6 45.7 50 9 A0108019 A0108019 802 9.6 45.7 50 17 A1049424 1M0188K02  
c 730 9.6 45.7 50 13 A0606889 A0606889 803 9.6 45.7 50 17 A2824510 2M0099612  
c 731 9.6 45.7 50 17 A2824510 2M0099612 804 9.6 45.7 50 17 BH168844 SALK 0002  
c 732 9.6 45.7 50 17 BH168844 SALK 0002 805 9.6 45.7 50 17 BH169178 SALK 0007  
c 733 9.6 45.7 50 17 BH169178 SALK 0007 806 9.6 45.7 50 17 BH171186 SALK 0049  
c 734 9.6 45.7 50 17 BH171186 SALK 0049 807 9.6 45.7 50 17 BH171659 SALK\_0046  
c 735 9.6 45.7 50 17 BH171659 SALK\_0046 808 9.6 45.7 50 17 BH172924 SALK\_0063  
c 736 9.6 45.7 50 17 BH172924 SALK\_0063 809 9.6 45.7 50 17 BH172924 SALK\_0063





```

RESULT 4
LOCUS      A0104580
DEFINITION A0104580 Susano Homo sapiens cDNA library Homo sapiens cDNA clone
ACCESSION A0104580
VERSION    A0104580.1 GI:13554101
KEYWORDS   EST.
SOURCE     human.
ORGANISM   Homo sapiens
            Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
            Mammalia; Eutheria; Primates; Catarrhini; Hominoidea; Homo.
REFERENCE
AUTHORS    Suzuki,Y., Taira,H., Tsunoda,I., Mizushima-Sugano,J., Sese,J., Hata
            H., Ota,T., Isogai,T., Tanaka,T., Morishita,S., Okubo,K., Sakaki
            Y., Nakamura,Y., Suyama,A. and Sudano,S.
            Inverse transcriptional initiation revealed by fine, large-scale
            mapping of mRNA start sites
            EMBO Rep. 2 (5), 388-493 (2001)
            Contact: Yutaka Suzuki
            Department of Virology
            Institute of Medical Science, University of Tokyo
            4-6-1, Shirokanedai, Minatoku, Tokyo 108-8639, Japan
            Email: yusuzuki@ims.u-tokyo.ac.jp
            S. Construction and characterization of a full length-enriched and
            a 5'-end-enriched cDNA library. Gene 200 (1-2), 149-156 (1997).
FEATURES
Source     1..50
            /organism "Homo sapiens"
            /db_xref "taxon:9606"
            /clone:"HEP01261"
            /clone_lib:"Susano Homo sapiens cDNA library"
            /note:"Differential display comparison of untreated and
            dimethylflumate treated 0937 cells"
BASE COUNT 11 a 10 c 21 q 8 t
ORIGIN
Query Match 62.9%; Score 14.2; DB 7; Length 50;
Best Local Similarity 83.3%; Pred. No. 8.1e+04;
Matches 15; Conservative 0; Mismatches 4; Indels 0; Gaps 0;
QY 1 GACGATACAGGCGGCG 18
DB 1 GACGATACAGGCGGCG 15
DB 2 GACGATACAGGCGGCG 15
RESULT 4
A0104580
LOCUS      A0104580
DEFINITION A0104580 Mouse 10kb plasmid U06C1M library Mus musculus genomic
ACCESSION A0104580
VERSION    A0104580.1 GI:12869569
KEYWORDS   GSS.
SOURCE     house mouse.
ORGANISM   Mus musculus
            Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
            Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
            (bases 1 to 24)
            Dunn,D., Aoyagi,A., Barboi,M., Boacorn,I., Dugal,R., Hamill,C.,
            Islam,R., Londebre,S., Mahmoud,M., Mowien,E., Pederson,T., Reilly
            M., Rose,M., Rose,K., Stokes,R., Timney,A., von Niederhausern,A.
            and Wright,D., Weiss,K.
            Mouse whole genome scaffolding with paired end reads from 10kb
            plasmid inserts
            Unpublished (2000)
            Contact: Robert B. Weiss
            University of Utah Genome Center
            University of Utah
            RM, 408, Biomedical Polymers Research Bldg., 20 S. 2030 E., Salt, UT
            84112, USA

```

```

1..1: pos 585 606
Fax: 801 585 7177
Email: dtm@genetics.utah.edu
Insert length: 10000 Std Error: 0.00
Plate: 0555 Row: 1 Column: 08
Seq primer: CTTGTAAAAAGACGCTAGT
Class: plasmid ends
High quality sequence stop: 24.
FEATURES
Location/Qualifiers
1..24
/organism "Mus musculus"
/strain:"C57BL/6J"
/db_xref "taxon:10090"
/clone "U06C1M0555L08"
/clone_lib:"Mouse 10kb plasmid U06C1M library"
/sex "Male"
/lab_host:"E. Coli strain XL10-Gold, 11-resistant, F-"
/note:"Vector: pMD20v; Purified genomic DNA from M.
musculus C57BL/6J (male) was obtained from the Jackson
Laboratory Mouse DNA Resource
(http://www.jax.org/resources/documents/docs/dnares/). The DNA
was hydrolytically sheared by repeated passage through a
0.005 inch orifice at constant velocity. The sheared DNA
was blunt end-repaired with T4 DNA polymerase and 14
polynucleotide kinase. Adaptor oligonucleotides were
ligated to the blunt ends in high molar excess. The
adapted DNA was purified and size-selected for a 9.5 to
10.5 kb range using preparative agarose gel
electrophoresis. Vector DNA was prepared from a derivative
of pMD242 (g14742114[db]AP126072.1); a copy-number
inducible derivative of plasmid pL. The vector was ligated
with adaptors complementary to the insert adaptors and
purified. The sheared, adapted mouse DNA was annealed to
adapted vector DNA, and transformed into
chemically-competent E. coli XL10-Gold (Stratagene) cells
and selected for ampicillin resistance."
BASE COUNT 2 a 7 c 11 q 4 t
ORIGIN
Query Match 61.0%; Score 12.8; DB 17; Length 24;
Best Local Similarity 87.5%; Pred. No. 9.9e+04;
Matches 14; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
QY 4 CCAAGGCAAGGCGG 19
DB 1 CCAAGGCAAGGCGG 16
DB 1 CCAAGGCAAGGCGG 16
RESULT 5
A0104453
LOCUS      A0104453
DEFINITION A0104453 Susano Homo sapiens cDNA library Homo sapiens cDNA clone
ACCESSION A0104453
VERSION    A0104453.1 GI:13554974
KEYWORDS   EST.
SOURCE     human.
ORGANISM   Homo sapiens
            Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
            Mammalia; Eutheria; Primates; Catarrhini; Hominoidea; Homo.
            (bases 1 to 50)
            Suzuki,Y., Taira,H., Tsunoda,I., Mizushima-Sugano,J., Sese,J., Hata
            H., Ota,T., Isogai,T., Tanaka,T., Morishita,S., Okubo,K., Sakaki
            Y., Nakamura,Y., Suyama,A. and Sudano,S.
            Inverse transcriptional initiation revealed by fine, large-scale
            mapping of mRNA start sites
            EMBO Rep. 2 (5), 388-493 (2001)
            Contact: Yutaka Suzuki
            Department of Virology
            Institute of Medical Science, University of Tokyo
            4-6-1, Shirokanedai, Minatoku, Tokyo 108-8639, Japan
            Email: yusuzuki@ims.u-tokyo.ac.jp

```

Suzuki,Y., Yoshitomo Nakagawa,K., Maruyama,K., Suyama,A. and Sudano  
S.S. construction and characterization of a full length enriched and  
a 5' end enriched cDNA library. Gene 200 (1-2), 149-156 (1997).

# FEATURES

## SOURCE

1..50  
/organism "Homo sapiens"  
/db\_xref "taxon:9606"  
/clone "ColF7121"

/note "Homo Sapiens cDNA Library"

/note "Differential display comparison of untreated and  
dimethylthiourate treated 0947 cells"

2 a 26 c 13 q 9 t

## BASE COUNT

### ORIGIN

Query Match 60.0%; Score 12.6; DB 9; Length 50;

Best Local Similarity 78.9%; Pred. No. 1.4e+05;

Matches 15; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

QY 3 CCAAGGAGAGCCCGGCG 21

1 1 1 1 1 1 1 1 1 1 1

1b 29 CCAAGGAGAGCCCGGCG 47

## RESULT 6

### ADDITIONAL

#### DEFINITION

AD104454 Homo sapiens cDNA library EST to AUG 2001  
ColF7121 mRNA sequence.

#### ACCESSION

#### VERSION

#### KEYWORDS

#### SOURCE

#### ORGANISM

#### REFERENCE

#### AUTHORS

Suzuki,Y., Tsunoda,T., Tanaka,T., Morishita,S., Okubo,K., Sakaki  
Y., Nakamura,Y., Suyama,A. and Sudano,S.  
Diverse transcriptional initiation revealed by time, large-scale  
mapping of mRNA start sites

EMBO Rep. 2 (5), 488-493 (2001)

Contact: Yutaka Suzuki

Department of Virology

Institute of Medical Science, University of Tokyo

4-6-1, Shirokanedai, Minatoku, Tokyo 108 8639, Japan

Email: yusuzuki@ims.u-tokyo.ac.jp

S.S. construction and characterization of a full length enriched and  
a 5' end enriched cDNA library. Gene 200 (1-2), 149-156 (1997).

## FEATURES

## SOURCE

1..50  
/organism "Homo sapiens"  
/db\_xref "taxon:9606"  
/clone "ColF7121"

/note "Homo Sapiens cDNA Library"

/note "Differential display comparison of untreated and  
dimethylthiourate treated 0947 cells"

2 a 26 c 13 q 9 t

## BASE COUNT

### ORIGIN

Query Match 60.0%; Score 12.6; DB 9; Length 50;

Best Local Similarity 78.9%; Pred. No. 1.4e+05;

Matches 15; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

QY 3 CCAAGGAGAGCCCGGCG 21

1 1 1 1 1 1 1 1 1 1 1

1b 29 CCAAGGAGAGCCCGGCG 47

## RESULT 7

### ADDITIONAL

#### DEFINITION

AD104454 Homo sapiens cDNA library EST to AUG 2001  
ColF7121 mRNA sequence.

#### ACCESSION

#### VERSION

#### KEYWORDS

#### SOURCE

#### ORGANISM

#### REFERENCE

#### AUTHORS

Suzuki,Y., Tsunoda,T., Tanaka,T., Morishita,S., Okubo,K., Sakaki  
Y., Nakamura,Y., Suyama,A. and Sudano,S.  
Diverse transcriptional initiation revealed by time, large-scale  
mapping of mRNA start sites

EMBO Rep. 2 (5), 488-493 (2001)

Contact: Yutaka Suzuki

Department of Virology

Institute of Medical Science, University of Tokyo

4-6-1, Shirokanedai, Minatoku, Tokyo 108 8639, Japan

Email: yusuzuki@ims.u-tokyo.ac.jp

S.S. construction and characterization of a full length enriched and  
a 5' end enriched cDNA library. Gene 200 (1-2), 149-156 (1997).

AD104454 Homo sapiens cDNA library EST to AUG 2001  
ColF7121 mRNA sequence.

# FEATURES

## SOURCE

1..50  
/organism "Homo sapiens"  
/db\_xref "taxon:9606"  
/clone "ColF7121"

/note "Homo Sapiens cDNA Library"

/note "Differential display comparison of untreated and  
dimethylthiourate treated 0947 cells"

2 a 26 c 13 q 9 t

## BASE COUNT

### ORIGIN

Query Match 60.0%; Score 12.6; DB 9; Length 50;

Best Local Similarity 78.9%; Pred. No. 1.4e+05;

Matches 15; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

QY 3 CCAAGGAGAGCCCGGCG 21

1 1 1 1 1 1 1 1 1 1 1

1b 29 CCAAGGAGAGCCCGGCG 47

## RESULT 6

### ADDITIONAL

#### DEFINITION

AD104454 Homo sapiens cDNA library EST to AUG 2001  
ColF7121 mRNA sequence.

#### ACCESSION

#### VERSION

#### KEYWORDS

#### SOURCE

#### ORGANISM

#### REFERENCE

#### AUTHORS

Suzuki,Y., Tsunoda,T., Tanaka,T., Morishita,S., Okubo,K., Sakaki  
Y., Nakamura,Y., Suyama,A. and Sudano,S.  
Diverse transcriptional initiation revealed by time, large-scale  
mapping of mRNA start sites

EMBO Rep. 2 (5), 488-493 (2001)

Contact: Yutaka Suzuki

Department of Virology

Institute of Medical Science, University of Tokyo

4-6-1, Shirokanedai, Minatoku, Tokyo 108 8639, Japan

Email: yusuzuki@ims.u-tokyo.ac.jp

S.S. construction and characterization of a full length enriched and  
a 5' end enriched cDNA library. Gene 200 (1-2), 149-156 (1997).

## FEATURES

## SOURCE

1..50  
/organism "Homo sapiens"  
/db\_xref "taxon:9606"  
/clone "ColF7121"

/note "Homo Sapiens cDNA Library"

/note "Differential display comparison of untreated and  
dimethylthiourate treated 0947 cells"

2 a 26 c 13 q 9 t

## BASE COUNT

### ORIGIN

Query Match 60.0%; Score 12.6; DB 9; Length 50;

Best Local Similarity 78.9%; Pred. No. 1.4e+05;

Matches 15; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

QY 3 CCAAGGAGAGCCCGGCG 21

1 1 1 1 1 1 1 1 1 1 1

1b 29 CCAAGGAGAGCCCGGCG 47

## RESULT 7

### ADDITIONAL

#### DEFINITION

AD104454 Homo sapiens cDNA library EST to AUG 2001  
ColF7121 mRNA sequence.

#### ACCESSION

#### VERSION

#### KEYWORDS

#### SOURCE

#### ORGANISM

#### REFERENCE

#### AUTHORS

Suzuki,Y., Tsunoda,T., Tanaka,T., Morishita,S., Okubo,K., Sakaki  
Y., Nakamura,Y., Suyama,A. and Sudano,S.  
Diverse transcriptional initiation revealed by time, large-scale  
mapping of mRNA start sites

EMBO Rep. 2 (5), 488-493 (2001)

Contact: Yutaka Suzuki

Department of Virology

Institute of Medical Science, University of Tokyo

4-6-1, Shirokanedai, Minatoku, Tokyo 108 8639, Japan

Email: yusuzuki@ims.u-tokyo.ac.jp

S.S. construction and characterization of a full length enriched and  
a 5' end enriched cDNA library. Gene 200 (1-2), 149-156 (1997).







/lab\_host="bhl08"  
 /note="organ: pancreas; Vector: pMW-SpR16; Site:1; Salt:  
 Site\_2; Not1; Cloned unidirectionally. Primer: oligo df.  
 Average insert size 1.72 kb. Life technologies catalog #:  
 11548 013"

BASE COUNT 9 a 14 c 17 q 5 t  
 ORIGIN

Query Match 58.1%; Score 12.2; DB 9; Length 43;  
 Best Local Similarity 82.4%; Pred. No. 2e+05;  
 Matches 14; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 3 GCGATGGAGGCGCGT 19  
 ||||| |||||  
 Db 4 GCGAGGAGGCGCGT 20

RESULT 11  
 AZ436403  
 LOCUS 19 bp DNA linear GSS 29 SEP-2000  
 DEFINITION IM006603R Mouse 10kb plasmid U08G1M Library Mus musculus genomic  
 clone U08G1M006603R DNA sequence.

ACCESSION AZ436403.1 GI:10405456  
 VERSION GSS.  
 KEYWORDS house mouse.  
 SOURCE Mus musculus.

ORGANISM  
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;  
 Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Mus;  
 1 (bases 1 to 19)  
 AUTHORS Dunn, D., Aoyagi, A., Barber, M., Beacorn, T., Bival, B., Hamil, C.,  
 Islam, H., Longacre, S., Mahmoud, M., McQueen, E., Pedersen, L., Reilly,  
 M., Rose, M., Rose, R., Stokes, R., Timney, A., von Niederhausern, A.  
 and Wright, D., Weiss, R.

TITLE Mouse whole genome scaffolding with paired end reads from 10kb  
 plasmid inserts

JOURNAL  
 COMMENT Unpublished (2000)  
 Contact: Robert B. Weiss  
 University of Utah Genome Center  
 University of Utah  
 Km. 408, Biomedical Polymers Research Bldg., 20 S. 2030 E., SLC, UT  
 84112, USA  
 Tel: 801 585 5606  
 Fax: 801 585 7177  
 Email: ddun@genetics.utah.edu  
 Insert Length: 10000 Std Error: 0.00  
 plates: 0066 rows: 3 columns: 03  
 Seq primer: CACAAGGAAACAGCATGAGC  
 Class: plasmid ends  
 High quality sequence stop: 19.

FEATURES  
 SOURCE  
 1..19  
 /organism="Mus musculus"  
 /strain="57BL/6J"  
 /db\_xref="taxon:10090"  
 /clone="U08G1M006603"  
 /clone\_lib="Mouse 10kb plasmid U08G1M Library"  
 /sex="Male"  
 /lab\_host="E. Coli strain XL10-Gold, 11-resistant, F-"  
 /note="Vector: pMW20v; Purified genomic DNA from M.  
 musculus 57BL/6J (male) was obtained from the Jackson  
 Laboratory Mouse DNA Resource  
 (http://www.jax.org/resources/documents/dnares/). The DNA  
 was hydronamically sheared by repeated passage through a  
 0.005 inch orifice at constant velocity. The sheared DNA  
 was blunt end-repaired with 14 DNA polymerase and 14  
 polynucleotide kinase. Adaptor oligonucleotides were  
 ligated to the blunt ends in high molar excess. The  
 adaptor DNA was purified and size-selected for a 9.5 to  
 10.5 kb range using preparative agarose gel  
 electrophoresis. Vector DNA was prepared from a derivative  
 of pMW42 (q1474214[abi129072.1]), a copy-number  
 inducible derivative of plasmid R1. The vector was ligated

with adaptors complementary to the insert adaptors and  
 purified. The sheared, adaptor mouse DNA was annealed to  
 adaptor vector DNA, and transformed into  
 chemically competent E. coli XL10-Gold (Stratagene) cells  
 and selected for ampicillin resistance."

BASE COUNT 5 a 6 c 4 q 6 t  
 ORIGIN

Query Match 57.1%; Score 12; DB 17; Length 19;  
 Best Local Similarity 100.0%; Pred. No. 2e+05;  
 Matches 12; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GAGGATGGAG 12  
 ||||| |||||  
 Db 19 GAGGATGGAG 8

RESULT 15  
 A1567849  
 LOCUS 28 bp mRNA linear EST 26-MAR 1999  
 DEFINITION t9B7607.x1 NCI-CGAP\_cw23 Homo sapiens cDNA clone IMAGE:2215812  
 similar to t9B7607.15215.015215 SALLIVARY PROLINE-RICH PROTEIN 1  
 (containing BSK1-22 1A1 repetitive element); mRNA sequence.

ACCESSION A1567849  
 VERSION EST.  
 KEYWORDS  
 SOURCE Homo sapiens.  
 ORGANISM

REFERENCE  
 AUTHORS 1 (bases 1 to 28)  
 NCI-CGAP http://www.ncbi.nlm.nih.gov/ncicgap.  
 TITLE National Cancer Institute, Cancer Genome Anatomy Project (CGAP).  
 Tumor Gene Index

JOURNAL  
 COMMENT Unpublished (1997)  
 Contact: Robert Strausberg, Ph.D.  
 Email: rstra@rmail.nih.gov  
 Tissue Procurement: Christopher Moskalko, M.D., Ph.D., Michael R.  
 Emmert-Buck, M.D., Ph.D.

cDNA Library Preparation: Life Technologies, Inc.  
 cDNA Library Arrayed by: Greg Lennon, Ph.D.  
 cDNA Sequencing by: Washington University Genome Sequencing Center  
 Clone distribution: NCI-CGAP clone distribution information can be  
 found through the I.M.A.G.E. Consortium/LLNL at:  
 www-bio.lbl.gov/abrp/image/image.html

Have considered overall poor quality  
 Seq primer: -400P from Glbro  
 High quality sequence stop: 1.  
 FEATURES  
 SOURCE  
 1..28  
 /organism="Homo sapiens"  
 /db\_xref="taxon:9606"  
 /clone="IMAGE:2215812"  
 /clone\_lib="NCI-CGAP\_cw23"  
 /issue\_type="tumor, 5 pooled (see description)"  
 /lab\_host="DH10B"  
 /note="organ: ovary; Vector: pCMV-SpR16; Site:1; Salt:  
 Site\_2; Not1; Cloned unidirectionally. Primer: oligo dl.  
 Average insert size 1.45 kb. Tumor types include: mixed  
 Mullerian tumor, papillary serous, clear cell, spindle  
 cell. All are primary tumors, metastasis positive. Life  
 technologies catalog #: 11534-013"

BASE COUNT 9 a 11 c 8 q 0 t  
 ORIGIN

Query Match 57.1%; Score 12; DB 9; Length 28;  
 Best Local Similarity 75.0%; Pred. No. 2.2e+05;  
 Matches 15; Conservative 0; Mismatches 5; Indels 0; Gaps 0;

QY 2 AGGATGGAGGCGCGT 21  
 ||||| ||||| |||||  
 Db 9 AGGATGGAGGCGCGT 28



Islam, H., Lonsdare, S., Mahmoud, M., Meenen, R., Pedersen, L., Reilly, M., Rose, M., Rose, R., Stokes, R., Under, A., von Niedelhauser, A., and Wright, D., Weiss, R.  
 Mouse whole genome scaffolding with paired end reads from 10kb plasmid inserts  
 unpublished (2000)  
 Contact: Robert B. Weiss  
 University of Utah Genome Center  
 University of Utah  
 Rm. 408, Biomedical Polymers Research Bldg., 20 S. 2000 E., Ste. 01  
 84112, USA  
 Tel: 801 585 5606  
 Fax: 801 585 7177  
 Email: ddm@genetics.utah.edu  
 Insert Length: 10000 Std Error: 0.00  
 Plate: 0007 row: P column: 16  
 Seq primer: GGTCTAAAGAGAGAGAGAGAG  
 class: plasmid ends  
 High quality sequence stop: 22.  
 Location/Qualifiers  
 1..22  
 /organism="Mus musculus"  
 /strain="C57BL/6J"  
 /db\_xref="taxon:10090"  
 /clone="000200007P16"  
 /clone\_lib="Mouse 10kb plasmid 00031M library"  
 /sex="Male"  
 /lab\_host="E. coli strain XL10-Gold, 11-resistant, F-"  
 /note="Vector: pMD24ov; Purified genomic DNA from M. musculus (C57BL/6J (male) was obtained from the Jackson Laboratory Mouse DNA Resource (<http://www.jax.org/resources/documents/shares/>). The DNA was hydrodynamically sheared by repeated passage through a 0.005 inch orifice at constant velocity. The sheared DNA was blunt end-repaired with T4 DNA polymerase and T4 polynucleotide kinase. Adaptor oligonucleotides were ligated to the blunt ends in high molar excess. The adaptor DNA was purified and size-selected for a 9.5 to 10.5 kb range using preparative agarose gel electrophoresis. Vector DNA was prepared from a derivative of pMD24 (q14732141q14729072.1), a copy-number inducible derivative of plasmid R1. The vector was ligated with adaptors complementary to the insert adaptors and purified. The sheared, adaptor mouse DNA was annealed to adaptor vector DNA, and transformed into chemically-competent E. coli XL10-Gold (Stratagene) cells and selected for ampicillin resistance."

FEATURES  
 SOURCE

BASE COUNT: 3 4 17 0 1 1 1  
 ORIGIN  
 Query Match 56.2%; Score 11.8; DB 17; Length 22;  
 Best Local Similarity 86.7%; Pred. No. 2.6e+05;  
 Matches 13; Conservative 0; Mismatches 2; Indels 0; Gaps 0;  
 QY 3 CCAATGGAGAGAGAG 17  
 DB 2 CCAATGGAGAGAG 16

RESULT 19  
 HSM007777/c  
 ID HSM009777 standard; RNA; EST; 35 BP.  
 XX AC AL044927;  
 XX AC AL044927.1  
 SV AL044927.1  
 DT 12 MAR 1999 (rel. 59, Created)  
 DT 12 MAR 1999 (rel. 59, Last updated, Version 1)  
 XX  
 DE Homo sapiens mRNA; EST DKFZp444N013\_1 (from clone DKFZp444N013)  
 XX  
 KW EST; expressed sequence tag.

XX Homo sapiens (human)  
 OS Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.  
 XX  
 GN [1]  
 RP 1-35  
 RA Wambutt R., Beilner D., Mewes W., Gassenhuber J., Wiemann S.;  
 RI Submitted (12-MAR-1999) to the EMBL/GenBank/DBJ databases.  
 RL MDS, Am Klopferspitze 18a D-82152 Martinsried, GERMANY  
 XX  
 CC Clone from S. Wiemann, sequenced by AGWA within the cDNA sequencing consortium of the German Genome Project  
 CC sl sequence also available  
 CC This clone is available at the RZPB in Berlin  
 CC Please contact the RZPB: Ressourcenzentrum, Reinhardsweg 6, 14059 Berlin-Charlottenburg, GERMANY; Email: clone.rzpb.de  
 XX  
 FH Key Location/Qualifiers  
 FH 1..35  
 FI source  
 FI /db\_xref="taxon:9606"  
 FI /organism="Homo sapiens"  
 FI /clone="DKFZp444N013"  
 FI /clone\_lib="434 (synonym: hres3). Vector pSport1; host DH10B; sites NotI, SalI"  
 FI /db\_xref="sites NotI, SalI"  
 FI /dev\_stage="adult"  
 FI /tissue\_type="testis"  
 XX  
 SQ Sequence 45 BP; 2 A; 8 C; 19 G; 4 T; 2 other;  
 Query Match 56.2%; Score 11.8; DB 2; Length 45;  
 Best Local Similarity 86.7%; Pred. No. 2.9e+05;  
 Matches 13; Conservative 0; Mismatches 2; Indels 0; Gaps 0;  
 QY 3 CCAATGGAGAGAGAG 17  
 DB 17 CCAATGGAGAGAGAG 3  
 RESULT 20  
 AL0689454  
 LOCUS  
 DEFINITION  
 t894-06.x1 NCT-CGAP.D14 Homo sapiens cDNA clone IMAGE:227226.3.  
 Similar to SW:BAI2\_HUMAN P48634 LARGE PROLINE RICH PROTEIN BAI2.  
 mRNA sequence.  
 ACCESSION  
 AL0689454  
 VERSION  
 AL068945.1 GI:4900748  
 KEYWORDS  
 EST.  
 SOURCE  
 human.  
 ORGANISM  
 Homo sapiens  
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.  
 REFERENCE  
 1 (bases 1 to 47)  
 NCT-CGAP <http://www.ncbi.nlm.nih.gov/ncicgap/>  
 National Cancer Institute, Cancer Genome Anatomy Project (CGAP).  
 Tumor Gene Index  
 Unpublished (1997)  
 JOURNAL  
 COMMENT  
 Contact: Robert Strausberg, Ph.D.  
 Email: rstra@nci.nih.gov  
 Tissue Procurement: Christopher Meskalluk, M.D., Ph.D., Michael B. Emmert-Buck, M.D., Ph.D.  
 cDNA Library Preparation: Life Technologies, Inc.  
 cDNA Library Arrayed by: Greg Lennon, Ph.D.  
 DNA Sequencing by: Washington University Genome Sequencing Center  
 clone distribution: NCT-CGAP clone distribution information can be found through the L.M.A.G.E. consortium/LMNT at:  
[www-bio.liml.nih.gov/bhrp/image/image.html](http://www-bio.liml.nih.gov/bhrp/image/image.html)  
 Trace considered overall poor quality  
 Insert Length: 1211 Std Error: 0.00  
 Seq primer: -3400P from Gibco



0.005 inch orifice at constant velocity. The sheared DNA was blunt end-repaired with T4 DNA polymerase and T4 polynucleotide kinase. Adaptor oligonucleotides were ligated to the blunt ends in high molar excess. The adaptored DNA was purified and size-selected for a 9.5 to 10.5 kb range using preparative agarose gel electrophoresis. Vector DNA was prepared from a derivative of pMD42 (ql147321141b1AF129072.1), a copy-number inducible derivative of plasmid p1. The vector was ligated with adaptors complementary to the insert adaptors and purified. The sheared, adaptored mouse DNA was annealed to adaptored vector DNA, and transformed into chemically-competent *E. coli* XL10-Gold (Stratagene) cells and selected for ampicillin resistance."

BASE COUNT 10 a 7 c 15 q 10 t

ORIGIN

Query Match 56.2%; Score 11.8; DB 17; Length 42;

Best Local Similarity 86.7%; Pred. No. 3e+05;

Matches 13; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 2 ACCCATGCGACGCC 16

||||| |||||

Db 35 ACCCATGCGACGCC 21

RESULT 24

AA746752

LOCUS

DEFINITION

AA746752

ACCESSION

VERSION

KEYWORDS

SOURCE

ORGANISM

REFERENCE

AUTHORS

TITLE

JOURNAL

COMMENT

FEATURES

SOURCE

BASE COUNT

ORIGIN

Query Match

Best Local Similarity

Matches 13; Conservative

QY 2 ACCCATGCGACGCC 16

||||| |||||

Db 28 ACCCATGCGACGCC 42

RESULT 24

AA746752

LOCUS

DEFINITION

AA746752

ACCESSION

VERSION

KEYWORDS

SOURCE

ORGANISM

REFERENCE

AUTHORS

TITLE

JOURNAL

COMMENT

FEATURES

SOURCE

BASE COUNT

ORIGIN

Query Match

Best Local Similarity

Matches 13; Conservative

QY 4 CCATGCGACGCC 18

|||||

Db 48 CCATGCGACGCC 24

RESULT 25

AA746752

LOCUS

DEFINITION

AA746752

ACCESSION

VERSION

KEYWORDS

SOURCE

ORGANISM

REFERENCE

AUTHORS

TITLE

JOURNAL

COMMENT

FEATURES

SOURCE

BASE COUNT

ORIGIN

Query Match

Best Local Similarity

Matches 13; Conservative

QY 4 CCATGCGACGCC 18

|||||

Db 48 CCATGCGACGCC 24

RESULT 25

AA746752

LOCUS

DEFINITION

AA746752

ACCESSION

VERSION

KEYWORDS

SOURCE

ORGANISM

REFERENCE

AUTHORS

TITLE

JOURNAL

COMMENT

FEATURES

SOURCE

BASE COUNT

ORIGIN

Query Match

Best Local Similarity

Matches 13; Conservative

QY 4 CCATGCGACGCC 18

|||||

Db 48 CCATGCGACGCC 24

RESULT 25

AA746752

LOCUS

DEFINITION

AA746752

ACCESSION

VERSION

KEYWORDS

SOURCE

ORGANISM

REFERENCE

AUTHORS

TITLE

JOURNAL

COMMENT

FEATURES

SOURCE

BASE COUNT

ORIGIN

Query Match

Best Local Similarity

Matches 13; Conservative

QY 4 CCATGCGACGCC 18

|||||

Db 48 CCATGCGACGCC 24

RESULT 25

AA746752

LOCUS

DEFINITION

AA746752

ACCESSION

VERSION

KEYWORDS

SOURCE

ORGANISM

REFERENCE

AUTHORS

TITLE

JOURNAL

COMMENT

FEATURES

SOURCE

BASE COUNT

ORIGIN

Query Match

Best Local Similarity

Matches 13; Conservative

QY 4 CCATGCGACGCC 18

|||||

Db 48 CCATGCGACGCC 24

RESULT 25

AA746752

LOCUS

DEFINITION

AA746752

ACCESSION

VERSION

KEYWORDS

SOURCE

ORGANISM

REFERENCE

AUTHORS

TITLE

JOURNAL

COMMENT

FEATURES

SOURCE

BASE COUNT

ORIGIN

Query Match

Best Local Similarity

Matches 13; Conservative

QY 4 CCATGCGACGCC 18

|||||

Db 48 CCATGCGACGCC 24

RESULT 25

AA746752

LOCUS

DEFINITION

AA746752

ACCESSION

VERSION

KEYWORDS

SOURCE

ORGANISM

REFERENCE

AUTHORS

TITLE

JOURNAL

COMMENT

FEATURES

SOURCE

BASE COUNT

ORIGIN

Query Match

Best Local Similarity

Matches 13; Conservative

QY 4 CCATGCGACGCC 18

|||||

Db 48 CCATGCGACGCC 24

RESULT 25

AA746752

LOCUS

DEFINITION

AA746752

ACCESSION

VERSION

KEYWORDS

SOURCE

ORGANISM

REFERENCE

AUTHORS

TITLE

JOURNAL

COMMENT

FEATURES

SOURCE

BASE COUNT

ORIGIN

Query Match

Best Local Similarity

Matches 13; Conservative

QY 4 CCATGCGACGCC 18

|||||

Db 48 CCATGCGACGCC 24

RESULT 25

AA746752

LOCUS

DEFINITION

AA746752

ACCESSION

VERSION

KEYWORDS

SOURCE

ORGANISM

REFERENCE

AUTHORS

TITLE

JOURNAL

COMMENT

FEATURES

SOURCE

BASE COUNT

ORIGIN

Query Match

Best Local Similarity

Matches 13; Conservative

QY 4 CCATGCGACGCC 18

|||||

Db 48 CCATGCGACGCC 24

RESULT 25

AA746752

LOCUS

DEFINITION

AA746752

ACCESSION

VERSION

KEYWORDS

SOURCE

ORGANISM

REFERENCE

AUTHORS

TITLE

JOURNAL

COMMENT

FEATURES

SOURCE

BASE COUNT

ORIGIN

Query Match

Best Local Similarity

Matches 13; Conservative

QY 4 CCATGCGACGCC 18

|||||

Db 48 CCATGCGACGCC 24

RESULT 25

AA746752

LOCUS

DEFINITION

AA746752

ACCESSION

Chiba, T., Isemai, T., Tanaka, T., Morishita, S., Okubo, K., Sakaki,  
Y., Nakamura, Y., Suyama, A., and Sugano, S.  
Diverse transcriptional initiation revealed by time, large scale  
mapping of mRNA start sites.  
EMBO Rep. 2 (5), 488-493 (2001)

## JOURNAL

21270072

## MEDLINE

## COMMENT

Contact: Yutaka Suzuki

Department of Virology

Institute of Medical Science, University of Tokyo

4-6-1, Shirokanedai, Minatoku, Tokyo 108 8639, Japan

Email: ysuzuki@ims.u-tokyo.ac.jp

Suzuki, Y., Yoshitomo Nakatawa, K., Maruyama, K., Suyama, A., and Sugano,  
S. Construction and characterization of a full length-enriched and  
a 5'-end-enriched cDNA library. Gene 200 (1-2), 149-156 (1997).

## FEATURES

Location/Qualifiers

1..50

Zorandism "Homo sapiens"

Zdb\_xref "taxon:9606"

Zclone "KAT08494"

Zclone\_lib "Sugano Homo sapiens cDNA library"

Znote "Differential display comparison of untreated and  
dimethylthymidate treated B947 cells"

## BASE COUNT

7 a 13 c 21 g 4 t

## ORIGIN

## Query Match

56.28; Score 11.8; DB 9; Length 50;

Best local similarity 86.78; Pred. No. 3,1e+05;

Matches 13; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 4 CCAAGGAGGAGG 18

||| ||||| |||

14b 48 CCAAGGAGGAGG 24

Search completed: March 18, 2003, 12:09:04

Job time : 872.984 secs

OM nucleic nucleic search, using sw model  
 Run on: March 18, 2003, 10:48:56 ; Search time 110.82 Seconds  
 Perfect score: 20  
 Sequence: 1 gcacagattctctccatg 20  
 Scoring table: IDENTITY\_NK  
 Gap: 10.0, gapext 1.0  
 Searched: 2085249 seqs, 112599459 residues  
 Total number of hits satisfying chosen parameters: 2166140  
 Minimum db seq length: 0  
 Maximum db seq length: 50  
 Post-processing: Minimum Match 0%  
 Maximum Match 100%  
 Listing first 1000 summaries  
 Database : N\_Geneseq\_101002.\*  
 1: /SID52/qcdata/geneseq/geneseq-emb1/NA1980.DAT:\*  
 2: /SID52/qcdata/geneseq/geneseq-emb1/NA1981.DAT:\*  
 3: /SID52/qcdata/geneseq/geneseq-emb1/NA1982.DAT:\*  
 4: /SID52/qcdata/geneseq/geneseq-emb1/NA1983.DAT:\*  
 5: /SID52/qcdata/geneseq/geneseq-emb1/NA1984.DAT:\*  
 6: /SID52/qcdata/geneseq/geneseq-emb1/NA1985.DAT:\*  
 7: /SID52/qcdata/geneseq/geneseq-emb1/NA1986.DAT:\*  
 8: /SID52/qcdata/geneseq/geneseq-emb1/NA1987.DAT:\*  
 9: /SID52/qcdata/geneseq/geneseq-emb1/NA1988.DAT:\*  
 10: /SID52/qcdata/geneseq/geneseq-emb1/NA1989.DAT:\*  
 11: /SID52/qcdata/geneseq/geneseq-emb1/NA1990.DAT:\*  
 12: /SID52/qcdata/geneseq/geneseq-emb1/NA1991.DAT:\*  
 13: /SID52/qcdata/geneseq/geneseq-emb1/NA1992.DAT:\*  
 14: /SID52/qcdata/geneseq/geneseq-emb1/NA1993.DAT:\*  
 15: /SID52/qcdata/geneseq/geneseq-emb1/NA1994.DAT:\*  
 16: /SID52/qcdata/geneseq/geneseq-emb1/NA1995.DAT:\*  
 17: /SID52/qcdata/geneseq/geneseq-emb1/NA1996.DAT:\*  
 18: /SID52/qcdata/geneseq/geneseq-emb1/NA1997.DAT:\*  
 19: /SID52/qcdata/geneseq/geneseq-emb1/NA1998.DAT:\*  
 20: /SID52/qcdata/geneseq/geneseq-emb1/NA1999.DAT:\*  
 21: /SID52/qcdata/geneseq/geneseq-emb1/NA2000.DAT:\*  
 22: /SID52/qcdata/geneseq/geneseq-emb1/NA2001A.DAT:\*  
 23: /SID52/qcdata/geneseq/geneseq-emb1/NA2001B.DAT:\*  
 24: /SID52/qcdata/geneseq/geneseq-emb1/NA2002.DAT:\*

Pred. No. is the number of results predicted by chance to have a  
 score greater than or equal to the score of the result being printed,  
 and is derived by analysis of the total score distribution.

## SUMMARIES

Result No.	Score	Query Match	length	DB ID	Description
1	20	100.0	20	AA033554	TGF-beta1 splice j
2	15.8	79.0	23	AAZ28750	Truncated membrane
3	15.8	79.0	27	AAZ28751	Truncated membrane
4	15.8	79.0	30	AAZ28752	Truncated membrane
5	15.8	79.0	33	AAZ28753	Membrane-transloc
6	15.8	79.0	34	AAZ28754	Membrane-transloc
7	15.8	79.0	39	AAZ19814	Membrane transloc
8	15.8	79.0	39	AAZ07779	DNA encoding synth
9	15.8	79.0	43	ABK11804	

10	15.8	79.0	46	20	AAZ19812	Membrane transloc
11	15.8	79.0	46	20	AAZ07778	Membrane transloc
12	15.4	77.0	23	24	AA095108	Leptotrichia
13	15.4	77.0	23	24	ABK10465	Leptotrichia
14	14.8	69.0	20	22	AA012479	Mouse caspase 6
15	14.8	69.0	21	19	AAV09332	PCR primer used to
16	14.8	69.0	21	19	AAV09342	PCR primer used to
17	14.6	68.0	30	21	AAZ50970	A. baumannii
18	14.4	67.0	31	24	ABK71876	Aspergillus niger
19	14.4	67.0	33	18	AAI94679	Cytoskeletal
20	14.4	67.0	33	24	ABK71874	Aspergillus niger
21	14.4	67.0	36	24	ABK71874	Aspergillus niger
22	14.4	67.0	39	24	ABK71875	Aspergillus niger
23	14.2	66.0	19	21	AA048438	Cyclin F ribozyme
24	14.2	66.0	19	22	AA060000	Cyclin F ribozyme
25	14.2	66.0	21	21	AAZ76126	Human biotinidase
26	14.2	66.0	24	21	AAZ55724	Human apolipoprotein
27	14.2	66.0	38	13	AAQ34108	Human apolipoprotein
28	14.2	66.0	39	17	AAI44876	Human apolipoprotein
29	14.2	66.0	17	21	AAI05485	Human apolipoprotein
30	14.2	66.0	20	14	AAQ48643	Human apolipoprotein
31	14.2	66.0	20	14	AAQ48645	Human apolipoprotein
32	14.2	66.0	20	24	AAI40316	Human apolipoprotein
33	14.2	66.0	20	24	AAI40316	Human apolipoprotein
34	14.2	66.0	20	24	AAI40316	Human apolipoprotein
35	14.2	66.0	29	18	AAI96969	Human apolipoprotein
36	14.2	66.0	31	20	AAI06497	Human apolipoprotein
37	14.2	66.0	31	22	AAI29954	Human apolipoprotein
38	14.2	66.0	33	20	AAZ28757	Truncated membrane
39	14.2	66.0	39	13	AAQ31547	Human apolipoprotein
40	14.2	66.0	39	17	AAI06741	Human apolipoprotein
41	14.2	66.0	45	22	AAI16725	Hybridisation probe
42	14.2	66.0	45	22	AAI30074	Human pro256 DNA
43	14.2	66.0	45	24	ABK40308	Human biotinidase
44	14.2	66.0	19	21	AAZ76342	Human biotinidase
45	14.2	66.0	20	24	ABI93963	Capture oligonucleotide
46	14.2	66.0	24	24	ABI88496	Capture oligonucleotide
47	14.2	66.0	25	19	AAV26315	Human prostate cancer
48	14.2	66.0	25	20	AAZ26054	Prostate disease
49	14.2	66.0	25	21	AAZ7539	Prostate disease
50	14.2	66.0	25	21	AAZ7539	Prostate disease
51	14.2	66.0	25	22	AAZ03758	Biomarker
52	14.2	66.0	26	19	AAV29968	PCR primer
53	14.2	66.0	26	20	AAV06642	PCR primer
54	14.2	66.0	27	19	AAV31032	Human erythropoietin
55	14.2	66.0	28	19	AAV05759	Probe used to
56	14.2	66.0	31	24	ABK99970	Mouse SMD-30
57	14.2	66.0	35	24	ABK3725	Acyl-CoA synthetase
58	14.2	66.0	42	18	AAI85655	Canine immunoglobulin
59	14.2	66.0	45	20	AAZ33934	Human pro329 hybrid
60	14.2	66.0	45	21	AAZ78631	Human pro329 hybrid
61	14.2	66.0	47	20	AAZ01153	Probe for human
62	14.2	66.0	47	21	AAZ67358	Human map-related
63	14.2	66.0	49	18	AAI80517	Hepatitis A
64	14.2	66.0	24	24	ABQ01607	Oligonucleotide
65	14.2	66.0	24	24	ABQ01607	Oligonucleotide
66	14.2	66.0	24	24	ABQ01607	Oligonucleotide
67	14.2	66.0	27	19	AAV94091	Human IL-2 receptor
68	14.2	66.0	37	20	AAZ09143	B. flavum lactate
69	14.2	66.0	34	17	AAI14046	Primer
70	14.2	66.0	37	20	AAZ86106	Ligand
71	14.2	66.0	41	24	ABQ73279	Human zinc finger
72	14.2	66.0	17	21	AAI07146	Hammerhead ribozyme
73	14.2	66.0	19	21	AA048439	Cyclin F ribozyme
74	14.2	66.0	19	22	AAI60001	Cyclin F ribozyme
75	14.2	66.0	20	15	AAZ76367	Oligonucleotide
76	14.2	66.0	20	16	AAI15164	Primer for
77	14.2	66.0	20	24	AAI40315	Human caspase 6
78	14.2	66.0	21	24	ABK51931	Mouse clone
79	14.2	66.0	25	23	AAI9269	Human protein
80	14.2	66.0	27	24	AAZ98286	Human plakophilin
81	14.2	66.0	29	21	AAZ04274	Polymorphic
82	14.2	66.0	31	19	AAV40133	PCR primer used to

83	12.2	61.0	42	24	AA144421	A thaliana GAL1 co
84	12.2	61.0	40	22	AAH20443	HRV6 virus p41 gen
85	12.2	61.0	41	24	AAH20449	Human cytlicin 30 p
86	12.2	61.0	45	20	AAH50007	Probe for GABAR2
87	12.2	61.0	45	21	AAH51405	Hybridisation prob
88	12.2	61.0	48	19	AAH51675	pR primer suspen
89	12.2	61.0	50	22	AAH28495	Human SNP oligonuc
90	12.2	61.0	19	18	AAH74259	Human LYS1 gene RT
91	12.2	60.0	20	16	AAH93092	Neur gene primer N
92	12.2	60.0	20	20	AAH97453	Primer used to amp
93	12.2	60.0	20	20	AAH92640	pR primer used to
94	12.2	60.0	22	13	AAH33247	pR primer #71 to
95	12.2	60.0	22	17	AAH15965	Primer for human c
96	12.2	60.0	22	17	AAH10099	Human cholesteryl
97	12.2	60.0	22	19	AAH56568	Human DP2-5 Apc p
98	12.2	60.0	22	21	AAH94570	Human Apc (DP2.5)
99	12.2	60.0	24	15	AAH72388	Adenovirus polyo
100	12.2	60.0	24	24	AAH40503	Adenovirus detecti
101	12.2	60.0	24	24	AAH01548	Oligonucleotide ad
102	12.2	60.0	24	24	AAH07033	Oligonucleotide ad
103	12.2	60.0	24	24	AAH07074	Oligonucleotide ad
104	12.2	60.0	24	24	AAH184704	Capture oligonucle
105	12.2	60.0	24	24	AAH184705	Capture oligonucle
106	12.2	60.0	25	21	AAH43992	P. aeruginosa dete
107	12.2	60.0	26	21	AAH43997	P. aeruginosa dete
108	12.2	60.0	27	20	AAH28029	Adipogenesis inhib
109	12.2	60.0	27	22	AAH25837	Adipogenesis inhib
110	12.2	60.0	29	19	AAH04541	opi-5-aristoloch
111	12.2	60.0	30	17	AAH40285	Bone morphogenetic
112	12.2	60.0	30	20	AAH10867	pR primer for the
113	12.2	60.0	30	20	AAH09149	pR primer 4, Syn
114	12.2	60.0	30	20	AAH77831	TGMV NIB derived p
115	12.2	60.0	31	22	AAH130501	Human single nucle
116	12.2	60.0	33	4	AAH130079	Sequence of substa
117	12.2	60.0	33	24	AAH58436	Myc epitope tag DN
118	12.2	60.0	33	24	AAH42589	Human scirino/threo
119	12.2	60.0	35	18	AAH91867	Primer for human i
120	12.2	60.0	35	21	AAH60122	Oligomer #60 used
121	12.2	60.0	35	21	AAH12261	Polioe human TRP
122	12.2	60.0	35	21	AAH07454	pR primer oligome
123	12.2	60.0	35	21	AAH08634	Human TRP chain 2
124	12.2	60.0	39	19	AAH58154	Primer ORF832-34
125	12.2	60.0	39	19	AAH59422	Sense primer ORF83
126	12.2	60.0	41	22	AAH76829	Human plasminogen
127	12.2	60.0	42	21	AAH04042	Prosopilla sp. end
128	12.2	60.0	42	22	AAH30534	PAAR-alpha gene ex
129	12.2	60.0	45	21	AAH87752	SNORF46 receptor i
130	12.2	60.0	45	21	AAH37261	Human Fc gamma 1b
131	12.2	60.0	45	22	AAH54386	Primer #78 used in
132	12.2	60.0	47	23	AAH88578	CNS disorder relat
133	12.2	60.0	47	24	AAH93615	Human tau protein
134	12.2	60.0	48	16	AAH05679	Bacteriophage colip
135	12.2	60.0	48	21	AAH96687	1 cell anti-tumor
136	12.2	60.0	50	15	AAH69426	Human hyaluronate
137	12.2	60.0	50	18	AAH74684	SV40 used in cons
138	12.2	60.0	50	18	AAH74684	Human hyaluronate
139	12.2	60.0	50	20	AAH17076	Test sequence from
140	12.2	60.0	50	22	AAH28514	Human SNP oligonuc
141	12.2	60.0	50	22	AAH79779	Human DNA containi
142	12.2	60.0	50	24	AAH82567	DNA binding molecu
143	11.8	59.0	17	21	AAH05486	Bacteriophage ribozym
144	11.8	59.0	17	21	AAH07147	Bacteriophage ribozym
145	11.8	59.0	17	23	AAH03705	Human CD20 Antibody
146	11.8	59.0	19	21	AAH84840	Cyclin F ribozyme
147	11.8	59.0	19	21	AAH85605	Cyclin A1 ribozyme
148	11.8	59.0	19	21	AAH85606	Cyclin A1 ribozyme
149	11.8	59.0	19	22	AAH60002	Cyclin F ribozyme
150	11.8	59.0	19	22	AAH60767	Cyclin A1 ribozyme
151	11.8	59.0	19	22	AAH60768	Cyclin A1 ribozyme
152	11.8	59.0	19	22	AAH22136	Expression FTA cut
153	11.8	59.0	19	24	AAH22139	Sense pR primer #
154	11.8	59.0	20	20	AAH05592	pR primer used to
155	11.8	59.0	20	20	AAH94841	pR primer used to
156	11.8	59.0	20	21	AAH88277	Minichromosome
157	11.8	59.0	20	21	AAH39086	Human met-1 and a
158	11.8	59.0	20	21	AAH10647	Human caspase-3 an
159	11.8	59.0	20	24	AAH08066	Human caspase-3 ph
160	11.8	59.0	20	24	AAH192937	Capture oligonucle
161	11.8	59.0	21	19	AAH09686	Human biotinylated p
162	11.8	59.0	21	21	AAH94859	Primer for amplifi
163	11.8	59.0	21	22	AAH18450	Thymosin alpha 1
164	11.8	59.0	21	22	AAH19615	Mouse beta-actin p
165	11.8	59.0	21	22	AAH19708	pR DNA polymerase
166	11.8	59.0	22	19	AAH70938	pR primer used to
167	11.8	59.0	22	19	AAH70938	Green fluorescent
168	11.8	59.0	23	22	AAH45124	Sense pR primer #
169	11.8	59.0	23	24	AAH22641	Single nucleotide
170	11.8	59.0	23	24	AAH74056	oligo 18, to const
171	11.8	59.0	24	22	AAH15395	Capture oligonucle
172	11.8	59.0	24	24	AAH18444	Capture oligonucle
173	11.8	59.0	24	24	AAH18445	Capture oligonucle
174	11.8	59.0	24	24	AAH191710	Capture oligonucle
175	11.8	59.0	24	24	AAH191711	Capture oligonucle
176	11.8	59.0	24	24	AAH192640	Capture oligonucle
177	11.8	59.0	24	24	AAH192641	Capture oligonucle
178	11.8	59.0	24	24	AAH192830	Capture oligonucle
179	11.8	59.0	24	24	AAH192831	Capture oligonucle
180	11.8	59.0	25	24	AAH87634	pHMA of pR prime
181	11.8	59.0	27	19	AAH21904	Nuclease resistant
182	11.8	59.0	28	16	AAH08596	HRV ORF2 pR 3' p
183	11.8	59.0	29	20	AAH09868	Probe for human se
184	11.8	59.0	29	22	AAH59369	Human secreted pro
185	11.8	59.0	29	24	AAH91048	Biotinylated oligo
186	11.8	59.0	30	20	AAH72087	Mouse actin DNA p
187	11.8	59.0	30	24	AAH66059	Hepatitis E virus
188	11.8	59.0	30	24	AAH04028	Human aldolase B q
189	11.8	59.0	32	17	AAH42191	Primer SF140 for m
190	11.8	59.0	33	20	AAH86093	Primer used to amp
191	11.8	59.0	33	22	AAH86543	gpp variant pR pr
192	11.8	59.0	41	22	AAH165283	Human NAD-depend
193	11.8	59.0	42	22	AAH15396	oligo 197, to cons
194	11.8	59.0	42	24	AAH18209	p53 mutation detec
195	11.8	59.0	46	18	AAH14351	Epimer BioA for q
196	11.8	59.0	47	21	AAH26696	Human mdr1 related
197	11.8	59.0	48	22	AAH54343	Oligonucleotide na
198	11.8	59.0	48	22	AAH10377	Oligonucleotide na
199	11.8	59.0	48	22	AAH28487	Random oligonucleo
200	11.8	59.0	48	24	AAH65041	Random oligonucleo
201	11.8	59.0	49	20	AAH32632	Neofar linc oligo
202	11.8	59.0	50	22	AAH131725	Neofar linc strep 11
203	11.8	59.0	50	22	AAH131725	Human SNP oligonuc
204	11.8	59.0	50	22	AAH131727	Human silent SNP e
205	11.8	59.0	50	22	AAH76766	1 Flavus promoter
206	11.8	59.0	50	20	AAH99803	pR to sense region
207	11.8	59.0	50	21	AAH49832	Myobacterium tube
208	11.8	59.0	50	24	AAH79953	Myobacterium tube
209	11.8	59.0	50	24	AAH194067	Human cyp2b6 gene
210	11.8	59.0	50	24	AAH194067	Capture oligonucle
211	11.8	59.0	50	24	AAH194067	Human cyp2b6 gene p
212	11.8	59.0	50	24	AAH194067	Human NADH cytochr
213	11.8	59.0	50	24	AAH194067	Human cyp2b6 gene 1
214	11.8	59.0	50	24	AAH194067	Human cyp2b6 gene 1
215	11.8	59.0	50	24	AAH194067	Human cyp2b6 gene 1
216	11.8	59.0	50	24	AAH194067	Human cyp2b6 gene 1
217	11.8	59.0	50	24	AAH194067	Human cyp2b6 gene 1
218	11.8	59.0	50	24	AAH194067	Human cyp2b6 gene 1
219	11.8	59.0	50	24	AAH194067	Human cyp2b6 gene 1
220	11.8	59.0	50	24	AAH194067	Human cyp2b6 gene 1
221	11.8	59.0	50	24	AAH194067	Human cyp2b6 gene 1
222	11.8	59.0	50	24	AAH194067	Human cyp2b6 gene 1
223	11.8	59.0	50	24	AAH194067	Human cyp2b6 gene 1
224	11.8	59.0	50	24	AAH194067	Human cyp2b6 gene 1
225	11.8	59.0	50	24	AAH194067	Human cyp2b6 gene 1
226	11.8	59.0	50	24	AAH194067	Human cyp2b6 gene 1
227	11.8	59.0	50	24	AAH194067	Human cyp2b6 gene 1
228	11.8	59.0	50	24	AAH194067	Human cyp2b6 gene 1



c 229	11.6	58.0	41	24	ABQ61491	Glutamic acid reove	402	11.4	57.0	25	24	ABQ61549	Human aquaporin 5
c 230	11.6	58.0	41	24	ABQ61492	Glutamic acid reove	404	11.4	57.0	25	24	ABQ61551	Human aquaporin 5
c 231	11.6	58.0	41	24	ABQ61493	Green fluorescent	c 404	11.4	57.0	25	19	AAV49840	Wheat D1 protease
c 232	11.6	58.0	42	18	AAU79465	DNA liquid for ade	c 405	11.4	57.0	26	24	ABK48212	Wheat D1 protease
c 233	11.6	58.0	44	21	AAU98736	Human serine prote	c 406	11.4	57.0	27	18	AAK67698	Human H11 VEGF re
c 234	11.6	58.0	45	22	AAK64122	Human prostate cDN	c 407	11.4	57.0	27	21	AAA95446	Neospora NP-166 ve
c 235	11.6	58.0	45	22	AAU93886	P700p epitope enro	c 408	11.4	57.0	27	22	AAU9887	gfp vector based on
c 236	11.6	58.0	45	24	ABU95493	Human P703p epitop	c 409	11.4	57.0	28	21	AAU36914	Green fluorescent
c 237	11.6	58.0	47	21	AAZ65762	Human map-related	c 410	11.4	57.0	30	20	AAZ28056	Truncated membrane
c 238	11.6	58.0	47	21	AAZ67100	Human map-related	c 411	11.4	57.0	30	20	AAZ24004	PCR primer gfp-Hin
c 239	11.6	58.0	48	22	AAU64404	PCR primer #11.0	c 412	11.4	57.0	30	24	ABAY2128	Green fluorescent
c 240	11.6	58.0	50	13	AAK33503	downstream sequenc	c 413	11.4	57.0	31	17	AAU13575	Forward primer for
c 241	11.6	58.0	50	20	AAZ34088	Human PR0792 hybr1	c 414	11.4	57.0	31	18	AAU13958	HIV-1 qpl20 synthe
c 242	11.6	58.0	50	21	AAU78750	Human PR0792 hybr1	c 415	11.4	57.0	31	18	AAU60582	Green fluorescence
c 243	11.6	58.0	50	21	AAU58172	Human PR0792 hybr1	c 416	11.4	57.0	31	19	AAV61755	A. victoria green
c 244	11.6	58.0	50	21	AAU77638	Human PR0792 hybr1	c 417	11.4	57.0	31	19	AAV23302	Synthetic HIV-1 gp
c 245	11.6	58.0	50	22	AAU29147	Human SNP oligonuc	c 418	11.4	57.0	31	20	AAU06204	Human biallelic po
c 246	11.4	57.0	17	21	AAU07148	Hammerhead ribozym	c 419	11.4	57.0	32	21	AAU36912	Green fluorescent
c 247	11.4	57.0	17	24	ABU41599	Human HLA genotypi	c 420	11.4	57.0	32	24	AAU28178	Green fluorescent
c 248	11.4	57.0	18	15	AAU55088	Sequence of frame	c 421	11.4	57.0	33	17	AAU13574	Reverse primer for
c 249	11.4	57.0	18	20	AAZ41196	Human AKT-1 phosph	c 422	11.4	57.0	33	18	AAU13957	HIV-1 qpl20 synthe
c 250	11.4	57.0	18	20	AAZ22212	Human AKT-1 mRNA i	c 423	11.4	57.0	33	19	AAV23301	Synthetic HIV-1 gp
c 251	11.4	57.0	19	21	AAU85607	Cyclin A1 ribozyme	c 424	11.4	57.0	33	19	AAV23301	oligonuc #70 used
c 252	11.4	57.0	19	21	AAU85608	Cyclin A1 ribozyme	c 425	11.4	57.0	33	21	AAU60124	oligonuc #66 used
c 253	11.4	57.0	19	22	AAU60769	Cyclin A1 ribozyme	c 426	11.4	57.0	33	21	AAU58026	Candida albicans U
c 254	11.4	57.0	19	22	AAU60770	Cyclin A1 ribozyme	c 427	11.4	57.0	33	21	AAU12263	Feline human tkpp
c 255	11.4	57.0	20	17	AAU37447	Anchored oligonuc	c 428	11.4	57.0	33	21	AAU07456	PCR primer oligonuc
c 256	11.4	57.0	20	20	AAZ02302	PCR primer used to	c 429	11.4	57.0	33	21	AAZ88636	Human tkpp chain 2
c 257	11.4	57.0	20	20	AAZ02003	PCR primer used to	c 430	11.4	57.0	34	20	AAZ884098	PCR primer for gre
c 258	11.4	57.0	20	21	AAZ69590	Human biallelic ma	c 431	11.4	57.0	34	20	AAZ31936	Primer correspondi
c 259	11.4	57.0	20	24	AAU80916	Human caspase 7 ph	c 432	11.4	57.0	34	21	AAU59274	Nucleotide sequenc
c 260	11.4	57.0	21	19	AAU41531	Nucleotide sequenc	c 433	11.4	57.0	34	22	AAU85676	Human asthma and a
c 261	11.4	57.0	21	20	AAU33445	Alpha 1,3-galactos	c 434	11.4	57.0	36	17	AAU139688	Aquorea victoria
c 262	11.4	57.0	22	19	AAU52864	Human ova nucleot i	c 435	11.4	57.0	36	18	AAU60107	Green fluorescent
c 263	11.4	57.0	22	20	AAU15490	Probe, mscAL53-22.1	c 436	11.4	57.0	36	18	AAU60101	Jellyfish green 11
c 264	11.4	57.0	22	21	AAU72934	Na+ and H+ antiport	c 437	11.4	57.0	36	19	AAV61753	A. victoria green
c 265	11.4	57.0	23	24	AAU03161	Primer 1P14925 for	c 438	11.4	57.0	36	19	AAV31053	Green fluorescent
c 266	11.4	57.0	24	19	AAU04786	oligonucleotide pr	c 439	11.4	57.0	36	19	AAU04798	Primer gfp2 for at
c 267	11.4	57.0	24	19	AAU04786	oligonucleotide pr	c 440	11.4	57.0	36	22	AAU02910	PCR primer pl used
c 268	11.4	57.0	24	20	AAU86854	Aposporry-specific	c 441	11.4	57.0	36	22	AAU61492	Green fluorescent
c 269	11.4	57.0	24	21	AAU06173	PCR primer for gfp	c 442	11.4	57.0	36	24	AAU28538	Yeast gfp strain c
c 270	11.4	57.0	24	24	AAU46162	Human ALADIN cDNA	c 443	11.4	57.0	36	24	AAU37875	Promoter, replaceme
c 271	11.4	57.0	24	24	ABQ03120	oligonucleotide ad	c 444	11.4	57.0	37	24	ABK37875	Human tkpp gene c
c 272	11.4	57.0	24	24	ABQ10092	oligonucleotide ad	c 445	11.4	57.0	38	19	AAU9127	Synthetic tkpp pr
c 273	11.4	57.0	24	24	ABQ10133	oligonucleotide ad	c 446	11.4	57.0	38	19	AAU9129	Synthetic tkpp pr
c 274	11.4	57.0	25	14	AAU51872	PML mRNA ribozyme	c 447	11.4	57.0	38	22	AAU75911	Green fluorescent
c 275	11.4	57.0	25	19	AAU22967	PCR primer A-4 pr	c 448	11.4	57.0	39	22	AAU11869	Jellyfish green 11
c 276	11.4	57.0	25	20	AAU70641	PCR primer A-4 pr	c 449	11.4	57.0	39	22	AAU84855	HPV 64 kilobait con
c 277	11.4	57.0	25	21	AAU72932	Na+ and H+ antiport	c 450	11.4	57.0	40	22	AAU75888	oligonucleotide #
c 278	11.4	57.0	25	24	ABQ61474	Human aquaporin 5	c 451	11.4	57.0	41	13	AAQ24165	Probe 2 based on 1
c 279	11.4	57.0	25	24	ABQ61476	Human aquaporin 5	c 452	11.4	57.0	41	19	AAV31038	Expression vecto
c 280	11.4	57.0	25	24	ABQ61478	Human aquaporin 5	c 453	11.4	57.0	41	19	AAU04783	Primer 95-448 for
c 281	11.4	57.0	25	24	ABQ61480	Human aquaporin 5	c 454	11.4	57.0	41	21	AAU55296	Rat gfp cyclohydro
c 282	11.4	57.0	25	24	ABQ61482	Human aquaporin 5	c 455	11.4	57.0	41	22	AAU16783	Primer smgGFP for wa
c 283	11.4	57.0	25	24	ABQ61484	Human aquaporin 5	c 456	11.4	57.0	42	20	AAU23332	luciferin submit 1
c 284	11.4	57.0	25	24	ABQ61486	Human aquaporin 5	c 457	11.4	57.0	42	20	AAU92705	Human A rat bait p
c 285	11.4	57.0	25	24	ABQ61488	Human aquaporin 5	c 458	11.4	57.0	42	22	AAU56599	Green fluorescent
c 286	11.4	57.0	25	24	ABQ61490	Human aquaporin 5	c 459	11.4	57.0	43	21	AAZ61429	PCR primer for med
c 287	11.4	57.0	25	24	ABQ61492	Human aquaporin 5	c 460	11.4	57.0	43	21	AAZ90397	Green fluorescent
c 288	11.4	57.0	25	24	ABQ61494	Human aquaporin 5	c 461	11.4	57.0	44	14	AAQ33937	downstream sequenc
c 289	11.4	57.0	25	24	ABQ61496	Human aquaporin 5	c 462	11.4	57.0	44	21	AAU91629	Cantharidin 115 ole
c 290	11.4	57.0	25	24	ABQ61498	Human aquaporin 5	c 463	11.4	57.0	44	22	AAU60443	oligonucleotide id
c 291	11.4	57.0	25	24	ABQ61527	Human aquaporin 5	c 464	11.4	57.0	45	18	AAU96613	Cyclitol-ubiquitin
c 292	11.4	57.0	25	24	ABQ61529	Human aquaporin 5	c 465	11.4	57.0	45	24	AAU82779	Human protective p
c 293	11.4	57.0	25	24	ABQ61531	Human aquaporin 5	c 466	11.4	57.0	46	18	AAU43544	Primer 299 for mce
c 294	11.4	57.0	25	24	ABQ61533	Human aquaporin 5	c 467	11.4	57.0	46	20	AAU22913	DEL9746591 primer
c 295	11.4	57.0	25	24	ABQ61535	Human aquaporin 5	c 468	11.4	57.0	50	17	AAU133668	PCR primer for wil
c 296	11.4	57.0	25	24	ABQ61537	Human aquaporin 5	c 469	11.4	57.0	50	17	AAU133670	PCR primer for med
c 297	11.4	57.0	25	24	ABQ61539	Human aquaporin 5	c 470	11.2	56.0	17	21	AAU64649	Basulthead ribozym
c 298	11.4	57.0	25	24	ABQ61541	Human aquaporin 5	c 471	11.2	56.0	17	21	AAU646082	Hammerhead ribozym
c 299	11.4	57.0	25	24	ABQ61543	Human aquaporin 5	c 472	11.2	56.0	17	22	AAU68956	COXI oligonucleot
c 300	11.4	57.0	25	24	ABQ61545	Human aquaporin 5	c 473	11.2	56.0	18	21	AAZ76940	Human biallelic ma
c 301	11.4	57.0	25	24	ABQ61547	Human aquaporin 5	c 474	11.2	56.0	18	21	AAZ64643	Basulthead ribozym

474	11.2	56.0	18	22	AAF68955	COX1 oligonucleotid
476	11.2	56.0	19	22	AAF68954	COX1 oligonucleotid
477	11.2	56.0	20	13	AAU25472	putine rich cmy ta
478	11.2	56.0	20	16	AAU89225	opioid receptor pc
479	11.2	56.0	20	17	AAU79041	Arabidopsis thalia
480	11.2	56.0	20	18	AAU16183	Human IL3 receptor
481	11.2	56.0	20	19	AAU57465	Arabidopsis ethyle
482	11.2	56.0	20	20	AAU95200	PCR primer used to
483	11.2	56.0	20	20	AAU94480	PCR primer used to
484	11.2	56.0	20	20	AAU94400	PCR primer used to
485	11.2	56.0	20	20	AAU92006	PCR primer used to
486	11.2	56.0	20	20	AAU53980	Human IL-3 recepto
487	11.2	56.0	20	21	AAU19546	Human IL-3 recepto
488	11.2	56.0	20	21	AAU59502	PCR primer for rat
489	11.2	56.0	20	21	AAU34424	Low adenosine anti
490	11.2	56.0	20	22	AAU14798	Pre-luc and Re-luc
491	11.2	56.0	20	22	AAU03800	Arabidopsis thalia
492	11.2	56.0	20	22	AAU68953	COX1 oligonucleotid
493	11.2	56.0	20	24	AAU13379	Human sphingosine
494	11.2	56.0	21	21	AAU73424	SNP flanking seque
495	11.2	56.0	21	21	AAU57449	Alitalia Kanamycin
496	11.2	56.0	21	22	AAU68952	COX1 oligonucleotid
497	11.2	56.0	21	24	AAU03416	Human PKD1 gene mu
498	11.2	56.0	22	16	AAU02480	Primer for the lig
499	11.2	56.0	22	16	AAU05068	MAE-8 PCR primer
500	11.2	56.0	22	16	AAU05971	COX I antisense se
501	11.2	56.0	22	18	AAU76707	E2A-binding protei
502	11.2	56.0	22	20	AAU77004	PCR primer PHN2197
503	11.2	56.0	22	22	AAU68951	COX1 oligonucleotid
504	11.2	56.0	23	16	AAU05956	COX I antisense pr
505	11.2	56.0	23	19	AAU21529	L-oncogene primer
506	11.2	56.0	23	21	AAU39549	Superheat-resistan
507	11.2	56.0	23	22	AAU68930	COX1 probe #23, H
508	11.2	56.0	23	22	AAU87615	Primer associated
509	11.2	56.0	24	18	AAU94925	Primer #2 for PRMA
510	11.2	56.0	24	19	AAU18031	PRMAD3 specific p
511	11.2	56.0	24	21	AAU91657	PCR primer for hum
512	11.2	56.0	24	24	AAU01562	oligonucleotide ad
513	11.2	56.0	24	24	AAU187336	Capture of oligonuc
514	11.2	56.0	24	24	AAU187337	Capture of oligonuc
515	11.2	56.0	25	18	AAU176358	Human fibronectin
516	11.2	56.0	25	19	AAU26415	Human prostate can
517	11.2	56.0	25	20	AAU54160	Human fibronectin
518	11.2	56.0	25	20	AAU26054	Prostate disease m
519	11.2	56.0	25	21	AAU19726	Human fibronectin
520	11.2	56.0	25	21	AAU34604	Low adenosine anti
521	11.2	56.0	25	21	AAU92021	Melanoma protein q
522	11.2	56.0	25	21	AAU87539	Primer specific to
523	11.2	56.0	25	22	AAU03758	Biomarker Dr band
524	11.2	56.0	25	24	AAU55249	EGFP PCR primer EG
525	11.2	56.0	26	22	AAU81675	Reovine P1A/Quinnaz
526	11.2	56.0	27	14	AAU04927	Probe Polalpha 26A
527	11.2	56.0	27	18	AAU189620	Adeno-associated v
528	11.2	56.0	27	19	AAU69885	Bacillus sp strain
529	11.2	56.0	27	19	AAU59497	Bacillus sp. pecti
530	11.2	56.0	27	24	AAU00076	Listeria monocytos
531	11.2	56.0	28	14	AAU51909	c-myc mRNA ribozym
532	11.2	56.0	28	24	AAU04583	Human AHB6 gene pr
533	11.2	56.0	29	15	AAU57718	Primer CTM1 to d
534	11.2	56.0	29	20	AAU05131	5' junction sequen
535	11.2	56.0	30	14	AAU041101	BMEL probe, Synth
536	11.2	56.0	30	15	AAU68577	A. tubiopsis PCR
537	11.2	56.0	30	16	AAU05973	COX I antisense se
538	11.2	56.0	30	19	AAU35609	Human mammary epit
539	11.2	56.0	40	22	AAU68968	COX1 oligonucleotid
540	11.2	56.0	40	22	AAU68969	COX1 oligonucleotid
541	11.2	56.0	40	22	AAU68970	COX1 oligonucleotid
542	11.2	56.0	40	22	AAU68971	COX1 oligonucleotid
543	11.2	56.0	40	22	AAU68972	COX1 oligonucleotid
544	11.2	56.0	40	22	AAU68973	COX1 oligonucleotid
545	11.2	56.0	40	22	AAU68974	COX1 oligonucleotid
546	11.2	56.0	40	22	AAU68975	COX1 oligonucleotid
547	11.2	56.0	41	18	AAU62492	Granule bound star

Adenovirus TR PCR  
Human single nucle  
Primer for polymer  
COX1 oligonucleotid  
Sequence of PCR pr  
Human fibroblast q  
Fibroblast growth  
Human fibroblast q  
Human fibroblast q  
Human serum albumi  
COX1 oligonucleotid  
Hepatitis B virus  
Hepatitis B virus  
D. melanogaster de  
oligonucleotid ide w  
COX1 oligonucleotid  
COX1 oligonucleotid  
Physcunited la pat  
Physcunited la pat  
Mouse MD46 cDNA pe  
COX1 oligonucleotid  
COX1 oligonucleotid  
COX I antisense se  
Substituted 6 pr  
Primer Insu1 for  
Human protective b  
Single base extens  
Primer specific to  
p luc and Re luc  
Zeta globin gene p  
PCR primer ZETAHS  
Zeta globin primer  
Human arginine met  
Human arginine met  
Transient receptor  
Transient receptor  
Human keratinocyte  
Human keratinocyte  
Human telovirus b  
Human protective b  
DEL9746591 primer  
DEL9746591 primer  
Human map related  
Human map related  
Human map related  
PCR primer AD0097  
Human p80 in situ  
Synthetic plasmid  
Human dehydrogenas  
Human SNP of genome  
Human SNP of genome  
Human SNP of genome  
Human SNP of genome  
Arabidopsis thalia  
Arabidopsis thalia  
Cyclin F ribozyme  
Human CEB108 PCR p  
Cyclin F ribozyme  
Scavenger receptor  
Scavenger receptor  
PCR primer used to  
Hepatitis B virus  
Loop genomic marker  
PCR primer used to  
PCR primer for 1  
Antisense oligonuc  
Exon 4 Truquant 2  
Murine PCR primer  
Human 3' primer #4  
Human chromosome 2  
Human preadipocytes  
Human biallelic ma

c 521	11	55.0	21	24	ARK70349	Synthetic antisense	c 594	11	55.0	35	19	AAV22971	PCR primer A-L Pr
c 522	11	55.0	22	21	AAA59405	Sindai virus struc	c 595	11	55.0	35	20	AAV22451	Human cPBM A-L ex
c 523	11	55.0	24	19	AAV58462	Primer cMkAS432.1	c 596	11	55.0	35	20	AAV70645	Human cPBM A-L Pr
c 524	11	55.0	24	20	AAV60947	Hepatitis C virus	c 597	11	55.0	36	21	AAV96548	T cell antigen rec
c 525	11	55.0	24	24	AAV99487	Right PCR primer u	c 598	11	55.0	37	22	AAV50664	Rat NAM hybridisa
c 526	11	55.0	24	24	AAV65974	Human gene specific	c 599	11	55.0	38	16	AAO81544	Primer for adeno v
c 527	11	55.0	24	24	AAO04946	Oligonucleotide ad	c 600	11	55.0	38	20	AAV64310	Human TCR beta cha
c 528	11	55.0	25	15	AAV67080	Sense primer for a	c 601	11	55.0	39	13	AAQ27408	Encoades VbJ seque
c 529	11	55.0	25	16	AAV98275	Hepatitis C virus	c 602	11	55.0	39	17	AAQ70762	Stemotic carotid a
c 530	11	55.0	25	18	AAV77077	Hepatitis C virus	c 603	11	55.0	39	17	AAQ70762	PCR primer for net
c 531	11	55.0	25	20	AAV80347	Green fluorescent	c 604	11	55.0	39	18	AAV59294	Sindbis virus glye
c 532	11	55.0	25	21	AAV96660	PCR primer used to	c 605	11	55.0	39	18	AAV77351	Antisense primer f
c 533	11	55.0	25	21	AAV99212	Primer for primer-	c 606	11	55.0	39	18	AAV77351	HIV-1 LAI for gene
c 534	11	55.0	25	22	AAV14946	Oligo #17 for muta	c 607	11	55.0	39	18	AAV5563	Sindbis virus glye
c 535	11	55.0	25	22	AAV14948	Oligo #19 for muta	c 608	11	55.0	39	20	AAV58543	Probe used for det
c 536	11	55.0	25	22	AAV14950	Oligo #21 for muta	c 609	11	55.0	39	20	AAV51622	Primer SINGIE for
c 537	11	55.0	25	18	AAV84698	KSHV/eHV2 glycopro	c 610	11	55.0	39	21	AAV51622	Human encoding VbJ j
c 538	11	55.0	26	24	AAV86196	Mms16 DNA amplifi	c 611	11	55.0	39	22	AAV85266	Human re cell line
c 539	11	55.0	26	24	AAV71948	Human RT-PCR probe	c 612	11	55.0	39	22	AAV27171	Assembly of domain
c 540	11	55.0	26	24	AAV39912	Human Retinolic aci	c 613	11	55.0	40	20	AAV08604	Assembly of domain
c 541	11	55.0	27	20	AAV36244	Primer used for se	c 614	11	55.0	40	20	AAV01614	Bellix-turn-bellix d
c 542	11	55.0	27	22	AAV86100	5' primer KC948 to	c 615	11	55.0	40	20	AAV01614	Bellix-turn-bellix d
c 543	11	55.0	27	24	AAV38890	Alfalfa plastocyan	c 616	11	55.0	40	24	AAV59536	Primer #54 used in
c 544	11	55.0	27	24	AAV83666	Glutathione synth	c 617	11	55.0	41	14	AAV41170	Degenerate primer
c 545	11	55.0	27	24	AAV96548	Primer #56 used in	c 618	11	55.0	41	15	AAV44336	GAT-B transporter
c 546	11	55.0	28	16	AAV05249	Hepatitis C virus	c 619	11	55.0	41	24	AAV43163	Human poly-philin
c 547	11	55.0	28	21	AAV57748	Hepatitis C virus	c 620	11	55.0	41	24	AAV59206	RNA polymerase II
c 548	11	55.0	28	21	AAV57779	Hepatitis C virus	c 621	11	55.0	42	14	AAV50769	ERM HIV target seq
c 549	11	55.0	28	22	AAV91275	Human inflammatory	c 622	11	55.0	42	16	AAV83141	HIVCRV12 No. 2065
c 550	11	55.0	28	22	AAV73507	Human GPRV12 PCR p	c 623	11	55.0	42	20	AAV59076	MOB7 PCR primer v4
c 551	11	55.0	29	20	AAV92417	Human A-Rat hamme	c 624	11	55.0	42	20	AAV27476	Oligo 925 for hcs
c 552	11	55.0	29	21	AAV04494	Polymorphic fragme	c 625	11	55.0	42	21	AAV96505	T cell antigen rec
c 553	11	55.0	29	24	AAV47068	Mouse OTS1-B7 reve	c 626	11	55.0	42	21	AAV96506	T cell antigen rec
c 554	11	55.0	29	24	AAV47157	Mouse OTS1-B7 gene	c 627	11	55.0	42	21	AAV64651	Halpin fibrocyte c
c 555	11	55.0	30	22	AAV83559	Corneodesmosin PCR	c 628	11	55.0	44	18	AAV26226	Bovine beta-mannos
c 556	11	55.0	30	24	AAV92622	HIV-1 gene fragmen	c 629	11	55.0	44	20	AAV64123	Hepatitis C virus
c 557	11	55.0	30	24	AAV66064	Human leukemia ch	c 630	11	55.0	45	17	AAV09176	Capture/Amp-probe
c 558	11	55.0	30	24	AAV43780	Human protein disu	c 631	11	55.0	45	19	AAV22769	Hepatitis C virus
c 559	11	55.0	31	21	AAV79158	Human genomic DNA	c 632	11	55.0	45	19	AAV20717	Hepatitis C virus
c 560	11	55.0	32	17	AAV11245	HIV strain lai net	c 633	11	55.0	45	19	AAV05026	Probe PA of the sp
c 561	11	55.0	32	19	AAV64347	TrnR2 cDNA PCR pri	c 634	11	55.0	45	20	AAV34189	Human PR827 hybr1
c 562	11	55.0	32	22	AAV99675	Probe used to iden	c 635	11	55.0	45	21	AAV78809	T cell antigen rec
c 563	11	55.0	33	17	AAV15816	Humanised IL2 MAB	c 636	11	55.0	45	21	AAV96533	T cell antigen rec
c 564	11	55.0	33	18	AAV188139	Primer for variabl	c 637	11	55.0	45	21	AAV96583	T cell antigen rec
c 565	11	55.0	33	18	AAV65470	pCMVdeltaR const	c 638	11	55.0	45	21	AAV96607	T cell antigen rec
c 566	11	55.0	33	19	AAV98475	Human CC chemokine	c 639	11	55.0	45	24	AAV86838	Hepatitis C A viru
c 567	11	55.0	33	20	AAV23104	HIV-1 tat, rev and	c 640	11	55.0	46	20	AAV78262	TAT-HV-p15bld fusi
c 568	11	55.0	33	21	AAV51666	Primer NEIR for SI	c 641	11	55.0	46	21	AAV63848	Mouse htd p5 domai
c 569	11	55.0	33	22	AAV75451	Human zinc finger	c 642	11	55.0	46	21	AAV46602	PCR primer used to
c 570	11	55.0	33	22	AAV73921	Human PD2 protein	c 643	11	55.0	46	21	AAV05885	Group B Streptococ
c 571	11	55.0	33	22	AAV89690	Probe used to iden	c 644	11	55.0	46	22	AAV07152	Unique cloning sit
c 572	11	55.0	33	24	AAV50204	RNA polymerase II	c 645	11	55.0	47	20	AAV01076	Probe for human f6
c 573	11	55.0	34	16	AAV86201	Sindbis structural	c 646	11	55.0	47	21	AAV65763	Human map-related
c 574	11	55.0	34	17	AAV35093	Sindbis virus stru	c 647	11	55.0	47	21	AAV66195	Human map-related
c 575	11	55.0	34	17	AAV30848	Sindbis cDNA rever	c 648	11	55.0	47	21	AAV67889	Human map-related
c 576	11	55.0	34	19	AAV60182	Reverse primer 114	c 649	11	55.0	47	21	AAV67897	Human map-related
c 577	11	55.0	34	19	AAV42423	Reverse PCR primer	c 650	11	55.0	47	24	AAV24592	5' PCR primer 244
c 578	11	55.0	34	20	AAV70743	Reverse PCR primer	c 651	11	55.0	48	21	AAV96549	T cell antigen rec
c 579	11	55.0	34	21	AAV92848	Sindbis virus stru	c 652	11	55.0	48	21	AAV96617	T cell antigen rec
c 580	11	55.0	34	21	AAV29965	Sindbis virus stru	c 653	11	55.0	48	21	AAV96644	T cell antigen rec
c 581	11	55.0	34	22	AAV46245	Human sperm protol	c 654	11	55.0	48	21	AAV96645	T cell antigen rec
c 582	11	55.0	34	22	AAV49705	Human FEP utilisin	c 655	11	55.0	49	17	AAV33251	PM1-RAR-alpha fusi
c 583	11	55.0	34	22	AAV16419	Cytochrome c oxida	c 656	11	55.0	49	23	AAV51687	Human alphaH4 ex
c 584	11	55.0	34	24	AAV18845	Alphavirus related	c 657	11	55.0	49	23	AAV10719	Tail adaptor of bta
c 585	11	55.0	34	24	AAV836311	Sindbis virus stru	c 658	11	55.0	50	21	AAV38651	Human DML/alpha BA
c 586	11	55.0	35	13	AAV25544	5' PCR primer for	c 659	11	55.0	50	22	AAV28500	Human SNP oligonuc
c 587	11	55.0	35	13	AAV25552	3' PCR primer for	c 660	11	55.0	50	22	AAV29963	Human SNP oligonuc
c 588	11	55.0	35	13	AAV40645	Primer 672, Synth	c 661	11	55.0	50	22	AAV33898	Human SNP oligonuc
c 589	11	55.0	35	14	AAV52457	PECV and FIPV DF2	c 662	11	55.0	50	22	AAV34524	Human SNP oligonuc
c 590	11	55.0	35	14	AAV52445	GGF primer 672 (pe	c 663	11	55.0	50	22	AAV34513	Corneodesmosin sin
c 591	11	55.0	35	15	AAV62894	GGF primer 672 (pe	c 664	10.8	54.0	15	21	AAV64410	Substrate for ham
c 592	11	55.0	35	15	AAV58180	GGF primer 672 (pe	c 665	10.8	54.0	17	16	AAV53444	Rat TCR beta ham
c 593	11	55.0	35	16	AAV74863	Bovine glial cell	c 666	10.8	54.0	17	21	AAV05487	Hammerhead ribozym

c 667	10.8	54.0	17	24	ABK043704	Human CD20 Antibody
c 668	10.8	54.0	17	24	ARK56817	Human C16A1 gene c
c 669	10.8	54.0	17	24	ARK567477	Human C16A1 gene c
c 670	10.8	54.0	18	16	AAV02547	Vaccinia virus BCR
c 671	10.8	54.0	18	16	AAV02858	Human PSAFP-1 gene
c 672	10.8	54.0	18	21	AA046332	Nucleotide sequence
c 673	10.8	54.0	19	16	AA082262	Chromosome 11 (Chr
c 674	10.8	54.0	19	24	AA142341	Noxel sand pear mi
c 675	10.8	54.0	20	15	AA077998	oligonucleotide to
c 676	10.8	54.0	20	15	AA071143	Merlin exon 12b pr
c 677	10.8	54.0	20	20	AA095072	PCR primer used to
c 678	10.8	54.0	20	20	AA079721	PCR primer used to
c 679	10.8	54.0	20	21	AA079797	Bacillus subtilis
c 680	10.8	54.0	20	21	AA051332	Z. mays partial we
c 681	10.8	54.0	20	21	AA051335	Z. mays partial we
c 682	10.8	54.0	20	22	AA010602	Human caspase 3 an
c 683	10.8	54.0	20	24	AA018380	Reverse PCR primer
c 684	10.8	54.0	20	24	AB144412	Human chromosome 1
c 685	10.8	54.0	21	13	AA025152	Alpha-Gal A sense
c 686	10.8	54.0	21	18	AA021177	Endothelin 1 PCR p
c 687	10.8	54.0	21	18	AA176783	Staphylococcus aur
c 688	10.8	54.0	21	19	AA026446	Human polymorphic
c 689	10.8	54.0	21	19	AA059033	Primer Q for A. th
c 690	10.8	54.0	21	19	AA013968	Cytochrome P450 is
c 691	10.8	54.0	21	20	AA016865	Rat cytochrome P45
c 692	10.8	54.0	21	21	AA075669	Human biallelic ma
c 693	10.8	54.0	21	21	AA055344	Rat cytochrome P45
c 694	10.8	54.0	21	22	AA023662	Rat cytochrome P45
c 695	10.8	54.0	21	22	AA095596	Human gene single
c 696	10.8	54.0	21	24	AA143222	187-2 protein PCR
c 697	10.8	54.0	22	18	AA096672	Human TULP2 gene p
c 698	10.8	54.0	22	20	AA083870	Forward primer SSC
c 699	10.8	54.0	22	21	AA094667	Human TULP2 gene p
c 700	10.8	54.0	22	21	AA029625	Tick derived cyste
c 701	10.8	54.0	22	21	AA049923	Human tumor suppr
c 702	10.8	54.0	22	22	AA041164	Probe SEQ ID 22
c 703	10.8	54.0	22	24	AA059461	Anti-human A11M m
c 704	10.8	54.0	22	24	AB145246	Human chromosome 1
c 705	10.8	54.0	23	21	AA060157	Primer #1 used to
c 706	10.8	54.0	23	21	AA072033	Human cathepsin Y
c 707	10.8	54.0	23	24	ARK97955	Betulin toxin gene
c 708	10.8	54.0	23	24	ARK61045	Human C16A1 gene c
c 709	10.8	54.0	23	24	ARK61053	Human C16A1 gene c
c 710	10.8	54.0	23	24	AA059460	Anti-human A11M m
c 711	10.8	54.0	24	12	AA014325	MC5-603 VL CDR2 w
c 712	10.8	54.0	24	19	AA060868	Mutagenic oligome
c 713	10.8	54.0	24	21	AA066326	Test genomic marker
c 714	10.8	54.0	24	21	AA029337	PCR primer for Iso
c 715	10.8	54.0	24	22	AA048649	Human overmidase p
c 716	10.8	54.0	24	22	AA090280	Primer BR1301 used
c 717	10.8	54.0	24	24	AB149942	Rice R1C1P3 (GalJ
c 718	10.8	54.0	25	16	AA086041	GFP 5' primer. Sy
c 719	10.8	54.0	25	18	AA093634	Acetone victoria
c 720	10.8	54.0	25	19	AA028436	CryICA syntactic q
c 721	10.8	54.0	25	19	AA029129	PCR primer used in
c 722	10.8	54.0	25	20	AA087475	Human GTPase domain
c 723	10.8	54.0	25	20	AA087476	Human GTPase domain
c 724	10.8	54.0	26	15	AA071525	Yellow jacket phosp
c 725	10.8	54.0	26	16	AA062774	GFP gene amino end
c 726	10.8	54.0	26	21	AA091747	PCR primer PWF2.1
c 727	10.8	54.0	27	15	AA066056	Japanese cedar pol
c 728	10.8	54.0	27	15	AA066057	Japanese cedar pol
c 729	10.8	54.0	27	18	AA074078	Mouse 11-1 VEGF r
c 730	10.8	54.0	27	18	AA073538	Mouse 11-1 VEGF r
c 731	10.8	54.0	27	18	AA067298	Human 11-1 VEGF re
c 732	10.8	54.0	27	19	AA098667	Human EGFR hamme
c 733	10.8	54.0	27	19	AA059435	Heat shock protein
c 734	10.8	54.0	27	21	AA062204	Hammerhead ribozym
c 735	10.8	54.0	27	22	AA072011	PCR primer PM2. S
c 736	10.8	54.0	28	18	AA090416	Human neutral amin
c 737	10.8	54.0	28	19	AA031150	Human neutral amin
c 738	10.8	54.0	28	20	AA089766	Sense primer for 1
c 739	10.8	54.0	28	20	AA084053	PCR primer for Hum
c 740	10.8	54.0	28	20	AA079993	Primer for human A
c 741	10.8	54.0	28	20	AA069233	Neutral amino acid
c 742	10.8	54.0	28	21	AA051999	Primer for amplifi
c 743	10.8	54.0	28	21	AA061325	ASCI1 anti-atriotic
c 744	10.8	54.0	28	21	AA088259	Human neutral amin
c 745	10.8	54.0	29	18	AA047834	Reverse PCR primer
c 746	10.8	54.0	29	20	AA018320	Human FIE 2 hamme
c 747	10.8	54.0	29	20	AA018324	Human FIE 2 hamme
c 748	10.8	54.0	29	20	AA019980	Human FIE 2 hamme
c 749	10.8	54.0	29	20	AA091757	Human FIE 2 hamme
c 750	10.8	54.0	29	21	AA090030	Hammerhead ribozym
c 751	10.8	54.0	29	21	AA090093	Hammerhead ribozym
c 752	10.8	54.0	29	21	AA090099	Hammerhead ribozym
c 753	10.8	54.0	29	21	AA090076	Hammerhead ribozym
c 754	10.8	54.0	29	21	AA0904126	Hammerhead ribozym
c 755	10.8	54.0	29	21	AA090570	Hammerhead ribozym
c 756	10.8	54.0	29	21	AA015056	PCR primer for pro
c 757	10.8	54.0	29	21	AA024057	testrogen receptor
c 758	10.8	54.0	29	21	AA036014	Reverse PCR primer
c 759	10.8	54.0	30	12	AA015386	Toxicologic closest
c 760	10.8	54.0	30	15	AA078518	Salmonella detect i
c 761	10.8	54.0	30	18	AA086358	Lambda primer 2
c 762	10.8	54.0	30	18	AA097933	PCR primer 2 for 1
c 763	10.8	54.0	30	18	AA095187	Equine rhinovirus
c 764	10.8	54.0	30	19	AA027322	Connexin 43 antisense
c 765	10.8	54.0	30	19	AA035124	Mouse WRN helicase
c 766	10.8	54.0	30	19	AA058336	4' primer flanking
c 767	10.8	54.0	30	20	AA021711	Competitor oligo S
c 768	10.8	54.0	30	22	AA019249	Mammalian interlon
c 769	10.8	54.0	31	19	AA067771	Nucleotide fragment
c 770	10.8	54.0	31	21	AA058305	Human p601005 hybr
c 771	10.8	54.0	31	21	AA059682	PCR primer used to
c 772	10.8	54.0	31	21	AA059688	PCR primer used to
c 773	10.8	54.0	31	22	AA031036	Human single nucle
c 774	10.8	54.0	31	22	AA044415	Human p601005 hybr
c 775	10.8	54.0	33	11	AA006848	Sequence contatined
c 776	10.8	54.0	33	13	AA027343	oligonucleotide for
c 777	10.8	54.0	33	13	AA031863	PCR primer 4 to am
c 778	10.8	54.0	33	18	AA047079	MDM2 B proteolase
c 779	10.8	54.0	34	13	AA032738	Human kappa light
c 780	10.8	54.0	34	19	AA053186	beta-1-oligomer Lys 1
c 781	10.8	54.0	34	20	AA087581	Tubercle myosin 2
c 782	10.8	54.0	34	20	AA060032	Primer for 1. Tubar
c 783	10.8	54.0	34	22	AA050143	beta-1-oligomer Lys 1
c 784	10.8	54.0	34	24	AA055972	Human kappa consta
c 785	10.8	54.0	35	14	AA043582	WAM 1 primer p 5
c 786	10.8	54.0	36	16	AA051484	Primer of cDNA c
c 787	10.8	54.0	36	19	AA030858	Human Bcl-1 hybrid
c 788	10.8	54.0	36	22	AA092100	Human beta-1-olig
c 789	10.8	54.0	37	19	AA027454	Streptococcus pneu
c 790	10.8	54.0	37	24	AA084922	Streptococcus pneu
c 791	10.8	54.0	37	17	AA081906	Human c myb hamme
c 792	10.8	54.0	38	23	AA040478	Human Nucleo-1
c 793	10.8	54.0	38	24	AA020152	Human E6c1 ribozyme
c 794	10.8	54.0	38	24	AA020152	Human E6c1 ribozyme
c 795	10.8	54.0	40	21	AA051107	oligonucleotide for
c 796	10.8	54.0	41	21	AA048446	Primer specific to
c 797	10.8	54.0	41	24	AA073280	Human zine finger
c 798	10.8	54.0	41	24	AA058116	Human serine/threo
c 799	10.8	54.0	41	24	AA058117	Human serine/threo
c 800	10.8	54.0	42	13	AA027483	beta-17 alpha by
c 801	10.8	54.0	42	15	AA055121	Human liver p450 2
c 802	10.8	54.0	42	20	AA077164	Chimeric packaging
c 803	10.8	54.0	45	21	AA065042	oligonucleotide #3
c 804	10.8	54.0	45	21	AA087260	UNA encoding factor
c 805	10.8	54.0	45	22	AA085764	Mouse melanocyte
c 806	10.8	54.0	45	24	AA072127	Streptococcus agal
c 807	10.8	54.0	49	15	AA067325	Streptococcus agal
c 808	10.8	54.0	50	19	AA018218	oligonucleotide seq
c 809	10.8	54.0	50	22	AA029146	oligonucleotide seq
c 810	10.8	54.0	50	22	AA034455	Human SNP oligome
c 811	10.8	54.0	50	22	AA074103	Human SNP oligome
c 812	10.8	54.0	50	22	AA074103	Human SNP oligome
c 813	10.8	54.0	50	22	AA074103	Human SNP oligome
c 814	10.8	54.0	50	22	AA074103	Human SNP oligome
c 815	10.8	54.0	50	22	AA074103	Human SNP oligome
c 816	10.8	54.0	50	22	AA074103	Human SNP oligome
c 817	10.8	54.0	50	22	AA074103	Human SNP oligome
c 818	10.8	54.0	50	22	AA074103	Human SNP oligome
c 819	10.8	54.0	50	22	AA074103	Human SNP oligome
c 820	10.8	54.0	50	22	AA074103	Human SNP oligome
c 821	10.8	54.0	50	22	AA074103	Human SNP oligome
c 822	10.8	54.0	50	22	AA074103	Human SNP oligome
c 823	10.8	54.0	50	22	AA074103	Human SNP oligome
c 824	10.8	54.0	50	22	AA074103	Human SNP oligome
c 825	10.8	54.0	50	22	AA074103	Human SNP oligome
c 826	10.8	54.0	50	22	AA074103	Human SNP oligome
c 827	10.8	54.0	50	22	AA074103	Human SNP oligome
c 828	10.8	54.0	50	22	AA074103	Human SNP oligome
c 829	10.8	54.0	50	22	AA074103	Human SNP oligome
c 830	10.8	54.0	50	22	AA074103	Human SNP oligome
c 831	10.8	54.0	50	22	AA074103	Human SNP oligome
c 832	10.8	54.0	50	22	AA074103	Human SNP oligome
c 833	10.8	54.0	50	22	AA074103	Human SNP oligome
c 834	10.8	54.0	50	22	AA074103	Human SNP oligome
c 835	10.8	54.0	50	22	AA074103	Human SNP oligome
c 836	10.8	54.0	50	22	AA074103	Human SNP oligome
c 837	10.8	54.0	50	22	AA074103	Human SNP oligome
c 838	10.8	54.0	50	22	AA074103	Human SNP oligome
c 839	10.8	54.0	50	22	AA074103	Human SNP oligome
c 840	10.8	54.0	50	22	AA074103	Human SNP oligome
c 841	10.8	54.0	50	22	AA074103	Human SNP oligome
c 842	10.8	54.0	50	22	AA074103	Human SNP oligome
c 843	10.8	54.0				

c 814	10.6	53.0	17	18	AA163594	U46, PCR primer us	886	10.6	53.0	41	19	AAV64658	Seq ID 23 from Hfl
c 814	10.6	53.0	17	21	AAV60681	Hammerhead ribozyme	c 887	10.6	53.0	41	19	AAV67555	Nucleotide 14 from
c 815	10.6	53.0	18	19	AAV62484	MAP kinase RNA mp	c 888	10.6	53.0	41	21	AAV78700	Human genomic DNA
c 816	10.6	53.0	18	21	AAV92591	Ant isense oligonuc	c 889	10.6	53.0	41	21	AAV78708	Human genomic DNA
c 817	10.6	53.0	18	24	AA171420	Human mannose su	c 890	10.6	53.0	41	22	AA170824	Human single nucle
c 818	10.6	53.0	19	24	AB141879	Human CYP2E1 probe	c 891	10.6	53.0	42	22	AA171448	Murine splenocyte
c 819	10.6	53.0	19	24	AB144451	Human chromosome 1	c 892	10.6	53.0	43	21	AAV38748	Murine terminal de
c 820	10.6	53.0	20	19	AAV52724	Hepatocyte nuclear	c 893	10.6	53.0	43	22	AAV38748	DNA encoding human
c 821	10.6	53.0	20	21	AAV71986	Human biallelic ma	c 894	10.6	53.0	43	22	AAV38748	DNA encoding human
c 822	10.6	53.0	20	22	AAV95002	Human cDNA clone-s	c 895	10.6	53.0	43	22	AAV59424	Aspergillus sojae
c 823	10.6	53.0	20	22	AAV62964	Shrimp white spot	c 896	10.6	53.0	43	22	AAV59424	Aspergillus sojae
c 824	10.6	53.0	20	24	AB160833	Nucleotide sequen	c 897	10.6	53.0	43	24	ABK53055	Air bubble protein
c 825	10.6	53.0	20	24	ABV99610	Canine epididymis	c 898	10.6	53.0	43	24	AB141579	Primer #4 related
c 826	10.6	53.0	20	24	ABV93032	Capture oligonucle	c 899	10.6	53.0	43	24	AA142065	Novel murine zinc
c 827	10.6	53.0	20	24	AB144864	Human chromosome 1	c 900	10.6	53.0	44	17	AA113001	Nitrate reductase
c 828	10.6	53.0	21	15	AAV54319	Neuronal protein	c 901	10.6	53.0	44	20	AAV06694	Human cyclin D2 ge
c 829	10.6	53.0	21	17	AA137544	Epstein Barr virus	c 902	10.6	53.0	44	21	AAV43155	PCR primer for c
c 830	10.6	53.0	21	21	AA236080	Reverse PCR primer	c 903	10.6	53.0	44	22	AAV45566	HBV beavon probe
c 831	10.6	53.0	21	22	AAV51513	Human NAT2 polymor	c 904	10.6	53.0	45	20	AAV27585	Transcriptional co
c 832	10.6	53.0	21	22	AAV97149	Human gene single	c 905	10.6	53.0	45	21	AAV54672	Neisseria species
c 833	10.6	53.0	22	13	AAV44432	Lowstroom PCR pri	c 906	10.6	53.0	45	22	AAV91599	Human inflammatory
c 834	10.6	53.0	22	19	AAV45687	Human NKCC2 gene c	c 907	10.6	53.0	45	24	ABV92530	Leucine zipper-hum
c 835	10.6	53.0	22	21	AAV49281	Primer used in REL	c 908	10.6	53.0	46	15	AAV63278	Primer to amplify
c 836	10.6	53.0	22	22	AAV02985	Human cBMR1 forward	c 909	10.6	53.0	46	16	AAV82724	Reverse strand pri
c 837	10.6	53.0	23	18	AAV44027	PCR primer 2 used	c 910	10.6	53.0	46	22	AAV00631	DNA encoding human
c 838	10.6	53.0	24	15	AAV63270	AXX2 promoter ampl	c 911	10.6	53.0	46	22	AAV00631	DNA encoding human
c 839	10.6	53.0	24	16	AAV81998	Reverse PCR primer	c 912	10.6	53.0	47	24	AA168838	DNA encoding human
c 840	10.6	53.0	24	20	AAV80096	Human PRO355 PCR p	c 913	10.6	53.0	47	24	AA168838	Escherichia coli S
c 841	10.6	53.0	24	21	AAV49502	Primer for isolati	c 914	10.6	53.0	48	14	AAV47242	Cre gene left prim
c 842	10.6	53.0	24	24	ABV02855	Oligonucleotide ad	c 915	10.6	53.0	48	17	AA109869	Human neurotansmi
c 843	10.6	53.0	24	24	ABV09588	Oligonucleotide ad	c 916	10.6	53.0	49	13	AAV31547	Human heterodimer
c 844	10.6	53.0	24	24	ABV09629	Oligonucleotide ad	c 917	10.6	53.0	49	18	AAV04741	Probe derived from
c 845	10.6	53.0	24	24	AB153001	Human PKBP protein	c 918	10.6	53.0	49	18	AAV04741	Probe used in pre
c 846	10.6	53.0	24	24	AB182634	Capture oligonucle	c 919	10.6	53.0	49	22	AAV00630	DNA encoding human
c 847	10.6	53.0	24	24	AB182634	Capture oligonucle	c 920	10.6	53.0	49	22	AAV57827	Oligonucleotide #4
c 848	10.6	53.0	24	24	AB191900	Capture oligonucle	c 921	10.6	53.0	49	22	AAV57827	Single base extens
c 849	10.6	53.0	24	24	AB191901	Capture oligonucle	c 922	10.6	53.0	49	22	AAV27322	PCR primer, SEQ ID
c 850	10.6	53.0	25	12	AAV33773	HBV primer number	c 923	10.6	53.0	49	24	AAV28091	HPV18 genomic DNA
c 851	10.6	53.0	25	18	AAV92290	Breast cancer tiss	c 924	10.6	53.0	49	19	AAV50972	Maize polymorphic
c 852	10.6	53.0	25	18	AAV75970	DEN-2 cloning/sequ	c 925	10.6	53.0	49	19	AAV50982	Maize polymorphic
c 853	10.6	53.0	25	20	AAV36226	Primer used for se	c 926	10.6	53.0	49	19	AAV50635	Brassica sp. polym
c 854	10.6	53.0	25	22	AAV15302	Mouse IFN-gamma #2	c 927	10.6	53.0	49	19	AAV50635	Brassica sp. polym
c 855	10.6	53.0	25	22	AAV10752	Mycobacterium tube	c 928	10.6	53.0	49	19	AAV50635	Brassica sp. polym
c 856	10.6	53.0	26	14	AAV50859	Hepatitis B virus	c 929	10.6	53.0	49	19	AAV47789	Maize polymorphic
c 857	10.6	53.0	26	16	AAV86606	Hepatitis B virus	c 930	10.6	53.0	49	24	AB196054	Brassica polymorph
c 858	10.6	53.0	26	17	AAV42412	HBV region 2 probe	c 931	10.6	53.0	49	24	AB196055	Brassica polymorph
c 859	10.6	53.0	26	17	AAV15551	HBV region 2 probe	c 932	10.6	53.0	49	24	AB142189	Probe #1 for of hu
c 860	10.6	53.0	26	18	AAV15551	Hepatitis B virus	c 933	10.6	53.0	49	24	AB142190	Probe #2 for of hu
c 861	10.6	53.0	26	19	AAV66329	Target-specific am	c 934	10.6	53.0	49	24	AAV92420	Human cyclin de p
c 862	10.6	53.0	26	20	AAV31586	Hepatitis B virus	c 935	10.6	53.0	49	24	AAV92420	DNA ligand for ad
c 863	10.6	53.0	26	20	AAV23171	Probe for TMA, Sy	c 936	10.6	53.0	49	24	AAV92420	Synthetic oligomer
c 864	10.6	53.0	27	20	AAV18845	HBV region 2 probe	c 937	10.6	53.0	49	24	AAV92420	Li chedermis revers
c 865	10.6	53.0	27	22	AAV00641	DNA encoding human	c 938	10.6	53.0	49	24	AAV92420	Primer used in pre
c 866	10.6	53.0	27	22	AAV00642	DNA encoding human	c 939	10.6	53.0	49	24	AAV92420	DNA ligand for ad
c 867	10.6	53.0	27	22	AAV381066	SNP specific lower	c 940	10.6	53.0	49	24	AAV57825	Oligonucleotide #4
c 868	10.6	53.0	27	22	AAV61799	B. subtilis NRP5 a	c 941	10.6	53.0	49	21	AAV37347	Single base extens
c 869	10.6	53.0	28	18	AAV17128	Primer 2 for ampl	c 942	10.6	53.0	49	21	AAV36838	5' PCR primer used
c 870	10.6	53.0	28	18	AAV72202	Fibroblast growth	c 943	10.6	53.0	49	22	AAV00626	DNA encoding human
c 871	10.6	53.0	29	19	AAV58371	Probe for coding s	c 944	10.6	53.0	49	23	AAV67879	Human inter leukin
c 872	10.6	53.0	30	14	AAV45830	HBV capture probe	c 945	10.6	53.0	49	20	AAV22923	DE19736591 primer
c 873	10.6	53.0	30	19	AAV07827	HBV-H9 capture pro	c 946	10.6	53.0	49	21	AAV67701	Human map-related
c 874	10.6	53.0	30	20	AAV83056	Capture probe HBV	c 947	10.6	53.0	49	21	AAV68483	Human map-related
c 875	10.6	53.0	30	21	AAV15412	Primer for DNA enc	c 948	10.6	53.0	49	22	AAV10663	Strand 5 of type A
c 876	10.6	53.0	30	21	AAV15414	Primer for DNA enc	c 949	10.6	53.0	49	22	AAV10663	Strand 5 of double
c 877	10.6	53.0	30	21	AAV15415	Primer for DNA enc	c 950	10.6	53.0	49	22	AAV00629	DNA encoding human
c 878	10.6	53.0	30	21	AAV52111	Maize G3MYL2B02	c 951	10.6	53.0	49	22	AAV00629	Human of Ho 14 to
c 879	10.6	53.0	30	21	AAV52187	Primer cBVL32B02	c 952	10.6	53.0	49	12	AAV11337	Probe 1860 Spec111
c 880	10.6	53.0	30	21	AAV46066	PCR primer used fo	c 953	10.6	53.0	49	20	AAV65035	Human E124 PCR pri
c 881	10.6	53.0	30	22	AAV43957	Neisseria meningit	c 954	10.6	53.0	50	20	AAV34032	Human P6615 hybr
c 882	10.6	53.0	30	22	AAV45906	Human hERT hybrid	c 955	10.6	53.0	50	20	AAV34032	Human inter leukin
c 883	10.6	53.0	30	22	AAV00633	DNA encoding human	c 956	10.6	53.0	50	21	AAV78707	Human P6615 hybr
c 884	10.6	53.0	30	22	AAV61122	A. orientalis subs	c 957	10.6	53.0	50	21	AAV58147	Human P6615 hybr
c 885	10.6	53.0	30	22	AAV87503	Corynebacterium th	c 958	10.6	53.0	50	21	AAV01244	Hybridisation prob

959 10.6 54.0 50 22 AAL40704 Human SNP oligonucleotide  
 960 10.6 54.0 50 22 AAL43806 Human SNP oligonucleotide  
 961 10.6 54.0 50 22 AAL43874 Human SNP oligonucleotide  
 962 10.6 54.0 50 24 AAL00159 Human silent mouse  
 963 10.4 52.0 14 24 AAL47906 oligonucleotide SE  
 964 10.4 52.0 14 24 AAL47907 oligonucleotide SE  
 965 10.4 52.0 15 16 AAL54684 Mouse IL-5 hamster  
 966 10.4 52.0 15 17 AAL47588 Apo(a) mRNA (nt. p  
 967 10.4 52.0 15 21 AAL64408 Substrate for ham  
 968 10.4 52.0 15 21 AAL64409 Substrate for ham  
 969 10.4 52.0 15 24 AAL19922 ASO primer #2 to d  
 970 10.4 52.0 15 24 AAL59657 Human NYIR isoen  
 971 10.4 52.0 16 17 AAL36264 Probe for ptkenv-7  
 972 10.4 52.0 16 24 AAL44376 Human chromosome 1  
 973 10.4 52.0 17 20 AAL20671 Interin alpha 6 s  
 974 10.4 52.0 17 20 AAL20672 Interin alpha 6 s  
 975 10.4 52.0 17 21 AAL64645 desulfotrib to vulg  
 976 10.4 52.0 17 24 AAL08646 Human GIMP-1 17-m  
 977 10.4 52.0 17 24 AAL08647 Human GIMP-1 17-m  
 978 10.4 52.0 17 24 AAL08648 Human GIMP-1 17-m  
 979 10.4 52.0 17 24 AAL08649 Human GIMP-1 17-m  
 980 10.4 52.0 17 24 AAL08650 Human GIMP-1 17-m  
 981 10.4 52.0 17 24 AAL08651 Human GIMP-1 17-m  
 982 10.4 52.0 18 21 AAL48785 Human G-alpha-16 a  
 983 10.4 52.0 18 21 AAL291427 Human Strip-2 phosph  
 984 10.4 52.0 18 22 AAL63061 Strimp white spot  
 985 10.4 52.0 19 21 AAL44514 Cyclin E ribozyme  
 986 10.4 52.0 19 21 AAL44514 Cyclin E ribozyme  
 987 10.4 52.0 19 21 AAL44515 Cyclin E ribozyme  
 988 10.4 52.0 19 22 AAL59675 Cyclin E ribozyme  
 989 10.4 52.0 19 22 AAL59676 Cyclin E ribozyme  
 990 10.4 52.0 19 22 AAL59677 Cyclin E ribozyme  
 991 10.4 52.0 19 24 AAL44914 Human chromosome 1  
 992 10.4 52.0 20 14 AAL24388 Embryonal isoen P  
 993 10.4 52.0 20 14 AAL49886 S. typhi primer A6  
 994 10.4 52.0 20 19 AAL24509 Primer for E-Nos  
 995 10.4 52.0 20 20 AAL24685 PCR primer used to  
 996 10.4 52.0 20 20 AAL202849 PCR primer used to  
 997 10.4 52.0 20 20 AAL22867 PCR primer used to  
 998 10.4 52.0 20 20 AAL92392 PCR primer used to  
 999 10.4 52.0 20 20 AAL96872 PCR primer used to  
 1000 10.4 52.0 20 21 AAL96691 Primer used to amp

## ALIGNMENTS

RESULT 1  
 AAL4454  
 10 AAL4454 standard; DNA; 20 bp.  
 AAL4454  
 01 JUL 2002 (first entry)  
 XX TGF-beta1 splice junction and isense oligonucleotide.  
 DE Transforming growth factor; TGF beta; cancer; thymoma; germ cell tumour;  
 KW multiple myeloma; melanoma; hematopoietic disease; thrombocytopaenia;  
 KW gene therapy; cytostatic; haemostatic; ss.  
 XX Identified.  
 XX W020004479 AL.  
 17 JAN 2002.  
 XX 06 JUL 2001; 2001W0-US21420.  
 XX 06 JUL 2000; 2000JS 216256P.  
 XX (AV1B ) AV1 B0-00HARMA INP.  
 RT 01 FEB 2000 (first entry)  
 XX Truncated membrane transmembrane peptide sequence coding region #1.  
 DE Membrane transmembrane peptide sequence; MS; fusion protein; production;  
 KW Schistosoma japonicum; glutathione S transferase; adenovirus; mammal;  
 KW p53; immune response; hepatitis B virus; surface antigen; canine; feline;  
 KW protease inhibitor; cancer; tumor suppressor; bovine; ss.  
 XX Synthetic.  
 XX W09949879 AL.  
 07 OCT 1999.  
 XX 31 MAR 1999; 99W0-0507189.  
 XX 31 MAR 1998; 98US 0080084.  
 PR 04 NOV 1998; 98US 0186670.  
 XX (UYVA ) UNIV VANDERBILT.  
 PA Lin Y, Bonahue JP, Rojas M, Tan ZJ;  
 PI WPL; 1999 610419/v2.  
 DE P (SDB; AAL44161.  
 XX

Query Match 100.0% Score 20; 18 24; Length 20;  
 Best Local Similarity 100.0%; Pred. No. 4,2;  
 Matches 20; Conservation 0; Mismatches 0; Indels 0; Gaps 0;  
 QY 1 GAAAGAGGCTCTCTGGGCGG 20  
 1111111111111111111111  
 DB 1 GAAAGAGGCTCTCTGGGCGG 20  
 1111111111111111111111  
 RESULT 2  
 AAL48790  
 10 AAL48790 standard; DNA; 23 bp.  
 XX  
 AAL48790;  
 01 FEB 2000 (first entry)  
 XX Truncated membrane transmembrane peptide sequence coding region #1.  
 DE Membrane transmembrane peptide sequence; MS; fusion protein; production;  
 KW Schistosoma japonicum; glutathione S transferase; adenovirus; mammal;  
 KW p53; immune response; hepatitis B virus; surface antigen; canine; feline;  
 KW protease inhibitor; cancer; tumor suppressor; bovine; ss.  
 XX Synthetic.  
 XX W09949879 AL.  
 07 OCT 1999.  
 XX 31 MAR 1999; 99W0-0507189.  
 XX 31 MAR 1998; 98US 0080084.  
 PR 04 NOV 1998; 98US 0186670.  
 XX (UYVA ) UNIV VANDERBILT.  
 PA Lin Y, Bonahue JP, Rojas M, Tan ZJ;  
 PI WPL; 1999 610419/v2.  
 DE P (SDB; AAL44161.  
 XX

PT New peptides containing a membrane-translocating sequence used to  
 PT develop products for use in, e.g. vaccines -  
 XX  
 PS Disclosure; Page 9; 85pp; English.  
 XX  
 CC Sequences AA28750-228757 represent truncated coding regions based on  
 CC the coding region of a novel membrane-translocating peptide sequence  
 CC (MTS; AA28749). The invention relates to the use of the MTS peptides  
 CC for generating fusion proteins which can be used for the production of  
 CC polypeptides of interest such as Schistosoma japonicum glutathione S  
 CC transferase, an adenovirus E3 19K protein or a mammalian p53 protein.  
 CC Fusions of the peptides can also be used for inducing an immune response  
 CC in a mammal using e.g. a viral polypeptide such as hepatitis B  
 CC surface antigen. They can also be used for protecting a subject from an  
 CC infectious agent using a polypeptide that inhibits reproduction of the  
 CC infectious agent such as a protease inhibitor. They can also be used for  
 CC treating cancer using a polypeptide tumor suppressor such as p53 protein  
 CC or a polypeptide inhibitor of hcl-2. The methods can be used for  
 CC treating canine, feline and bovine diseases and also for studying  
 CC intracellular proteins.  
 XX  
 SQ Sequence 23 BP; 1 A; 9 C; 4 G; 9 T; 0 other;

Query Match 79.0%; Score 15.8; DB 20; Length 23;  
 Best Local Similarity 89.5%; Pred. No. 3.4e+02;  
 Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1 GACAGCTCTCTTCGCTG 19  
 ||||| ||||| ||||| ||  
 DB 1 GACAGCTCTCTTCGCTG 19

RESULT 4  
 AA28751  
 ID AA28751 standard; DNA; 27 BP.  
 AC AA28751;  
 XX  
 XX 01-FEB-2000 (first entry)  
 XX  
 XX Truncated membrane-translocating peptide sequence coding region #2.

XX Membrane-translocating peptide sequence; MTS; fusion protein; production;  
 KW Schistosoma japonicum; glutathione S transferase; adenovirus; mammal;  
 KW p53; immune response; hepatitis B virus; surface antigen; canine; feline;  
 KW protease inhibitor; cancer; tumor suppressor; bovine; ss.  
 XX  
 OS Synthetic.

PN W09949879-A1.  
 XX  
 XX 07-OCT-1999.  
 XX  
 XX 31-MAR-1999; 99WO-US07189.  
 XX  
 XX 31-MAR-1998; 98US-0080083.  
 FR 04-NOV-1998; 98US-0186170.  
 XX  
 XX (UYVA-) UNIV VANDERBILT.

PI Lin Y, Donahue JP, Rojas M, Tan ZJ;  
 XX  
 XX WPI; 1999-610819/52.  
 DR P-PSDB; AAY44162.  
 XX  
 XX New peptides containing a membrane-translocating sequence used to  
 PT develop products for use in, e.g. vaccines -  
 XX  
 XX Disclosure; Page 9; 85pp; English.

XX Sequences AA28750-228757 represent truncated coding regions based on  
 CC the coding region of a novel membrane-translocating peptide sequence  
 CC (MTS; AA28749). The invention relates to the use of the MTS peptides

CC for generating fusion proteins which can be used for the production of  
 CC polypeptides of interest such as Schistosoma japonicum glutathione S  
 CC transferase, an adenovirus E3 19K protein or a mammalian p53 protein.  
 CC Fusions of the peptides can also be used for inducing an immune response  
 CC in a mammal using e.g. a viral polypeptide such as hepatitis B  
 CC surface antigen. They can also be used for protecting a subject from an  
 CC infectious agent using a polypeptide that inhibits reproduction of the  
 CC infectious agent such as a protease inhibitor. They can also be used for  
 CC treating cancer using a polypeptide tumor suppressor such as p53 protein  
 CC or a polypeptide inhibitor of hcl-2. The methods can be used for  
 CC treating canine, feline and bovine diseases and also for studying  
 CC intracellular proteins.

SQ Sequence 27 BP; 1 A; 10 C; 4 G; 12 T; 0 other;

Query Match 79.0%; Score 15.8; DB 20; Length 27;  
 Best Local Similarity 89.5%; Pred. No. 3.4e+02;  
 Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1 GACAGCTCTCTTCGCTG 19  
 ||||| ||||| ||||| ||  
 DB 1 GACAGCTCTCTTCGCTG 19

RESULT 4  
 AA28752  
 ID AA28752 standard; DNA; 40 BP.  
 AC AA28752;  
 XX

DT 01-FEB-2000 (first entry)

XX Truncated membrane-translocating peptide sequence coding region #3.

XX Membrane-translocating peptide sequence; MTS; fusion protein; production;  
 KW Schistosoma japonicum; glutathione S transferase; adenovirus; mammal;  
 KW p53; immune response; hepatitis B virus; surface antigen; canine; feline;  
 KW protease inhibitor; cancer; tumor suppressor; bovine; ss.

OS Synthetic.

PN W09949879-A1.

XX 07-OCT-1999.

XX 31-MAR-1999; 99WO-US07189.

XX 31-MAR-1998; 98US-0080083.

PR 04-NOV-1998; 98US-0186170.

XX (UYVA-) UNIV VANDERBILT.

PI Lin Y, Donahue JP, Rojas M, Tan ZJ;

XX WPI; 1999-610819/52.

DR P-PSDB; AAY44163.

XX New peptides containing a membrane-translocating sequence used to  
 PT develop products for use in, e.g. vaccines -

XX Disclosure; Page 9; 85pp; English.

XX Sequences AA28750-228757 represent truncated coding regions based on  
 CC the coding region of a novel membrane-translocating peptide sequence  
 CC (MTS; AA28749). The invention relates to the use of the MTS peptides  
 CC for generating fusion proteins which can be used for the production of  
 CC polypeptides of interest such as Schistosoma japonicum glutathione S  
 CC transferase, an adenovirus E3 19K protein or a mammalian p53 protein.  
 CC Fusions of the peptides can also be used for inducing an immune response  
 CC in a mammal using e.g. a viral polypeptide such as hepatitis B

CC surface antigen. They can also be used for protecting a subject from an  
 CC infectious agent using a polypeptide that inhibits reproduction of the  
 CC infectious agent such as a protease inhibitor. They can also be used for

cc Treating cancer using a polypeptide tumor suppressor such as p53 protein  
 cc or a polypeptide inhibitor of bel-2. The methods can be used for  
 cc treating canine, feline and bovine diseases and also for studying  
 cc intracellular proteins.

xx Sequence 40 BP; 1 A; 12 C; 5 G; 12 T; 0 other;

xx Query Match 79.0%; Score 15.8; DB 20; Length 40;  
 xx Best Local Similarity 89.5%; Pred. No. 3,500,023;  
 xx Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

xx 1 GAAAGAGTCTTCTCCGCG 19  
 ||||| ||||| ||||| |||||  
 || 1 GAAAGAGTCTTCTCCGCG 19

RESULT 5

AAZ28754  
 ID AAZ28754 standard; DNA; 44 BP.

xx AAZ28754;

xx 01 FEB 2000 (first entry)

xx Truncated membrane-translocated peptide sequence coding region #4.

xx Membrane translocated peptide sequence; MTS; fusion protein; production;  
 xx Schistosoma japonicum; glutathione S transferase; adenovirus; mammal;  
 xx p53; immune response; hepatitis B virus; surface antigen; canine; feline;  
 xx protease inhibitor; cancer; tumor suppressor; bovine; ss.

xx Synthesized.

xx W09549879-A1.

xx 07 OCT 1999.

xx 41 MAR 1999; 9900 US07189.

xx 41 MAR 1998; 980S 0080083.

xx 04 NOV 1998; 980S 0186170.

xx (UYVA-) UNIV VANDERBILT.

xx Lin Y, Isanahue JP, Rojas M, Tan ZJ;

xx WPL; 1999 610819/52.

xx P PSDB; AAY44164.

xx New peptides containing a membrane translocated sequence used to

xx develop products for use in, e.g., vaccines

xx Disclosure; Page 9; 85pp; English.

xx Sequences AAZ28750 Z8757 represent truncated coding regions based on  
 cc the coding region of a novel membrane-translocated peptide sequence  
 cc (MTS; AAZ28749). The invention relates to the use of the MTS peptides  
 cc for generating fusion proteins which can be used for the production of  
 cc polypeptides of interest such as Schistosoma japonicum glutathione S  
 cc transferase, an adenovirus E3 19K protein or a mammalian p53 protein.  
 cc Fusions of the peptides can also be used for inducing an immune response  
 cc in a mammal using e.g., a viral polypeptide such as hepatitis B  
 cc surface antigen. They can also be used for protecting a subject from an  
 cc infectious agent using a polypeptide that inhibits reproduction of the  
 cc infectious agent such as a protease inhibitor. They can also be used for  
 cc treating cancer using a polypeptide tumor suppressor such as p53 protein  
 cc or a polypeptide inhibitor of bel-2. The methods can be used for  
 cc treating canine, feline and bovine diseases and also for studying  
 cc intracellular proteins.

xx Sequence 44 BP; 2 A; 14 C; 6 G; 12 T; 0 other;

xx Query Match 79.0%; Score 15.8; DB 20; Length 44;

xx Best Local Similarity 89.5%; Pred. No. 3,500,023;  
 xx Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

xx 1 GAAAGAGTCTTCTCCGCG 19  
 ||||| ||||| ||||| |||||  
 || 1 GAAAGAGTCTTCTCCGCG 19

RESULT 6

AAZ28749  
 ID AAZ28749 standard; DNA; 44 BP.

xx AAZ28749;

xx 01 FEB 2000 (first entry)

xx Membrane translocated peptide sequence coding region.

xx Membrane translocated peptide sequence; MTS; fusion protein; production;  
 xx Schistosoma japonicum; glutathione S transferase; adenovirus; mammal;  
 xx p53; immune response; hepatitis B virus; surface antigen; canine; feline;  
 xx protease inhibitor; cancer; tumor suppressor; bovine; ss.

xx Synthesized.

xx W09549879-A1.

xx 07 OCT 1999.

xx 41 MAR 1999; 9900 US07189.

xx 41 MAR 1998; 980S 0080083.

xx 04 NOV 1998; 980S 0186170.

xx (UYVA-) UNIV VANDERBILT.

xx Lin Y, Isanahue JP, Rojas M, Tan ZJ;

xx WPL; 1999 610819/52.

xx P PSDB; AAY44164.

xx New peptides containing a membrane translocated sequence used to

xx develop products for use in, e.g., vaccines

xx Disclosure; Page 8; 85pp; English.

xx This sequence represents the coding region for a novel membrane-  
 cc translocated peptide sequence (MTS). The invention relates to the use  
 cc of the MTS peptides for generating fusion proteins which can be used for  
 cc the production of polypeptides of interest such as Schistosoma japonicum  
 cc glutathione S transferase, an adenovirus E3 19K protein or a mammalian  
 cc p53 protein. Fusions of the peptides can also be used for inducing an  
 cc immune response in a mammal using e.g., a viral polypeptide such as  
 cc hepatitis B surface antigen. They can also be used for protecting a  
 cc subject from an infectious agent using a polypeptide that inhibits  
 cc reproduction of the infectious agent such as a protease inhibitor.  
 cc They can also be used for treating cancer using a polypeptide tumor  
 cc suppressor such as p53 protein or a polypeptide inhibitor of bel-2.  
 cc The methods can be used for treating canine, feline and bovine diseases  
 cc and also for studying intracellular proteins.

xx Sequence 44 BP; 2 A; 14 C; 6 G; 12 T; 0 other;

xx Query Match 79.0%; Score 15.8; DB 20; Length 44;

xx Best Local Similarity 89.5%; Pred. No. 3,500,023;  
 xx Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

xx 1 GAAAGAGTCTTCTCCGCG 19  
 ||||| ||||| ||||| |||||  
 || 1 GAAAGAGTCTTCTCCGCG 19

RESULT 7



AAZ19814/1  
ID AAZ19814 standard; DNA: 39 BP.  
XX  
XX  
AC AAZ19814;  
XX  
XX  
06-DEC-1999 (first entry)  
XX  
DE Membrane translocating sequence (MTS) 3' PCR primer.  
XX  
XX  
KW Cytochrome; targeting; localisation; cancer; tumour; product; reduction;  
KW nucleus; PCR; primer; ss.  
XX  
XX  
OS Synthetic.  
XX  
XX  
FN W9945126-A2.  
XX  
XX  
PD 10-SEP-1999.  
XX  
XX  
PF 05-MAR-1999; 99W00GB00674.  
XX  
XX  
PR 06-MAR-1998; 98GB-0004841.  
PR 19-APR-1998; 98GB-0018103.  
PR 29-JAN-1999; 99GB-0002081.  
XX  
XX  
PA (OXFORD BIOMEDICA UK LTD).  
XX  
XX  
PI Stratford IJ, Patterson AV, Kingsman SM, Kan O, Griffiths L;  
PI Mitrophanous K;  
XX  
XX  
DR WPI: 1999-551046/46.  
XX  
XX  
PT New product activating agent targeted to selected cells or tissues,  
PT particularly hypoxic cells, for treating e.g. tumors -  
XX  
XX  
PS Example 9; Page 127; 187pp; English.  
XX  
XX  
CC This sequence represents a membrane translocating sequence (MTS)  
CC 3' PCR primer, used with a 5' primer (AAZ19812) in the construction  
CC of a vector encoding a fusion protein comprising anti-5T4  
CC antigen secreted single chain antibody Fv fragment (5T4scFv,  
CC AAY42294), the membrane translocating sequence and the p450R  
CC derivative, anchoring p450R (AAY42287). Construction of this  
CC fusion protein enables it to be delivered to other cells where it is  
CC then transported to the nucleus. Many drugs' sites of action are in the  
CC nucleus, rather than the cytoplasm, where p450R normally functions.  
CC p450R or its derivatives can be used to activate products to their active  
CC form via reduction. Administration of a product is useful where the  
CC active drug may be metabolised before it reaches its site of action or  
CC where the active drug is cytotoxic, e.g., anticancer drugs. p450R  
CC derivative fusion proteins, or vectors that express them, are  
CC specifically used to treat tumors, inflammation, atherosclerosis and  
CC muscular dystrophy, but may also be used to treat many other conditions,  
CC e.g., cerebral malaria, rheumatoid arthritis, or conditions associated  
CC with hypoxia, ischaemia or hypoglycemia, or to deliver antibiotics,  
CC antiviral agents, anaesthetics, anti-inflammatories,  
CC antineoplastic agents and diagnostic agents.  
XX  
XX  
SQ Sequence 39 BP; 13 A; 6 C; 16 G; 4 T; 0 other;  
  
Query Match 79.08; Score 15.8; DB 20; Length 49;  
Best Local Similarity 89.58; Pred. NO. 4,6002;  
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;  
  
QY 1 GAAAGAGCTCTCTGGG 19  
DB 11111111111111111111  
49 GAAAGAGCTCTCTGGG 21  
  
RESULT 9  
ABK11804  
ID AAZ07779 standard; DNA: 49 BP.  
XX  
XX  
AC AAZ07779;  
XX

```

XX 05 JUN 2002 (first entry)
XX DNA encoding synthetic pDNA3-E7/MIS protein.
XX
XX Virucides; cytostatic; vaccine; intercellular transport; antitumor;
XX immune response; cytotoxic T lymphocyte; tumor; cancer; pDNA3-E7/MIS;
XX chronic viral infection; veterinary herpesvirus infection; pseudorabies;
XX equine herpesvirus; bovine herpesvirus; Marek's disease virus; chicken;
XX fowl; animal retroviral disease; rabies; ds.
XX
XX Synthetic.
XX
XX Key location/Qualifiers
XX misc_feature 1..4
XX /*tag: a
XX /note: "also, the 5' end of the complementary strand
XX overhangs the 3' end of this strand by the
XX sequence 5'-AGT-3'"
XX
XX cds 6...41
XX /*tag: b
XX /partial
XX /product: "pDNA3-E7/MIS peptide"
XX /note: "this sequence lacks a stop codon"
XX
XX W200209645 A2.
XX
XX 07 FEB 2002.
XX
XX 01 AUG 2001; 2001W0 052/9966.
XX
XX 01 AUG 2000; 2000US 222185P.
XX 15 FEB 2001; 2001US-2685/9P.
XX 04 APR 2001; 2001US-28104P.
XX
XX (JYJ) UNIV. JOHNS HOPKINS.
XX
XX Wu T. Heng C.
XX
XX WP1: 2002 257467/40.
XX
XX P-PS08; AA077241.
XX
XX New nucleic acids encoding fusion polypeptide comprising intercellular
XX transport polypeptide linked to antigenic polypeptide, useful as
XX therapeutic vaccine for cancer and major chronic viral infections.
XX
XX Example 1; Page 39; 102pp; English.
XX
XX The present invention relates to a new nucleic acid molecule that
XX encodes a fusion polypeptide. The fusion protein comprises a first
XX polypeptide comprising at least one intercellular transport polypeptide
XX and a second polypeptide comprising at least one antigenic polypeptide
XX or peptide. The invention also describes an optional linker peptide
XX linking the first and second polypeptide. The nucleic acid is useful as
XX a vaccine for enhancing immune responses, primarily cytotoxic T
XX lymphocyte responses to specific antigens such as tumor or viral
XX antigens. The compositions comprising the nucleic acids are especially
XX useful as a therapeutic vaccine for cancer and for major chronic viral
XX infections, as well as in the treatment of veterinary herpesvirus
XX infections, including equine or bovine herpesvirus, Marek's disease virus
XX in chickens and other fowls, animal retroviral diseases, pseudorabies
XX and rabies. The present nucleic acid sequence encodes the pDNA3-E7/MIS
XX peptide used in the methods of the invention for the generation of
XX pDNA3-E7/MIS expression vector.
XX
XX Sequence 43 BP; 4 A; 18 C; 7 G; 14 T; 0 other;
XX
XX Query Match 79.0%; Score 15.8; DB 24; Length 43;
XX Best Local Similarity 89.5%; Pred. No. 3,6e+02;
XX Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
XX
XX 1 GAGAGAGAGAGAGAGAGAGAG 19
XX ||||| ||||| ||||| |||||

```

```

1b 6 GAGAGAGAGAGAGAGAGAG 24
XX
XX RESULT 10
XX AAZ19812
XX ID: AAZ19812 standard; DNA: 46 BP.
XX AC: AAZ19812;
XX XX 06 DEC 1999 (first entry)
XX
XX Membrane translocation sequence (MIS) 5' PCR primer.
XX
XX cytochrome; targeting; localisation; cancer; tumor; reduction;
XX nucleus; PCR; primer; ss.
XX
XX Synthetic.
XX
XX W09945127 A2.
XX
XX 10 SEP 1999.
XX
XX 05-MAR-1999; 99W0 030006/4.
XX
XX 06-MAR-1998; 9806 0004841.
XX 19 AUG 1998; 9806 0018104.
XX 29 JAN 1999; 9906 0002081.
XX
XX (XPR) EXP-80 RD-MED/VA DR LID.
XX
XX Stratford LJ, Patterson AV, Kindman SM, Kan O, Griffiths J;
XX Mitophagosome K;
XX
XX WPI: 1999 551046/46.
XX
XX New protein activating agent targeted to selected cells or tissues,
XX particularly hypoxic cells, for treating e.g. tumors
XX
XX Example 9; Page 127; 187pp; English.
XX
XX This sequence represents a membrane translocation sequence (MIS)
XX 5' PCR primer, used with a 3' primer (AAZ19813) in the construction
XX of a vector encoding a fusion protein comprising anti-514
XX antigen secreted single chain antibody Fv fragment (514scFv,
XX AA042294), the membrane translocation sequence and the p450R
XX derivative, anchorless p450R (AA042287). Construction of this
XX fusion protein enables it to be delivered to other cells where it is
XX then transported to the nucleus. Many drugs' sites of action are in the
XX nucleus, rather than the cytoplasm, where p450R normally functions.
XX p450R or its derivatives can be used to activate proteins to their active
XX form via reduction. Administration of a product is useful where the
XX active drug may be metabolised before it reaches its site of action or
XX where the active drug is cytotoxic, e.g., anticancer drugs. p450R
XX derivative fusion proteins, or vectors that express them, are
XX specifically used to treat tumors, inflammation, atherosclerosis and
XX muscular dystrophy, but may also be used to treat many other conditions,
XX e.g., cerebral malaria, rheumatoid arthritis, or conditions associated
XX with hypoxia, ischaemia or hypoperfusion, or to deliver antitoxins,
XX antiviral agents, analgesics, anaesthetics, and inflammatory,
XX antineoplastic agents and diagnostic agents.
XX
XX Sequence 46 BP; 4 A; 19 C; 9 G; 14 T; 0 other;
XX
XX Query Match 79.0%; Score 15.8; DB 20; Length 46;
XX Best Local Similarity 89.5%; Pred. No. 3,7e+02;
XX Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
XX
XX 1 GAGAGAGAGAGAGAGAGAGAG 19
XX ||||| ||||| ||||| |||||
XX 11 GAGAGAGAGAGAGAGAGAGAG 29
XX
XX RESULT 11

```

AAZ0777d  
 ID AAZ0777d standard: DNA: 46 BP.  
 AC AAZ0777d;  
 XX  
 DE 23-MAY-1999 (first entry)  
 XX  
 DE Membrane translocation sequence (MIS) amplifying 5' primer.  
 XX  
 KW Protein: localization domain; tumor-selective antibody; cytochrome P450;  
 KW prodrug activating domain; modified hematopoietic stem cell; MISC: tumor;  
 KW inflammation; atherosclerosis; muscular dystrophy; cerebral malaria;  
 KW rheumatoid arthritis; hypoxia; ischemia; hypoglycemia; PCR primer;  
 KW membrane translocation sequence; MIS: ss.  
 XX  
 OS Synthetic.  
 XX  
 PN W09045126-A2.  
 XX  
 PD 10-SEP-1999.  
 XX  
 PF 05-MAR-1999; 9900-GR000672.  
 XX  
 PR 06-MAR-1998; 98GB-0004841.  
 PR 19-AUG-1998; 98GB-0018104.  
 PR 29-JAN-1999; 99GB-0002081.  
 XX  
 FA (OXFORD) OXFORD BIOMEDICAL UK LTD.  
 XX  
 PI Stratford LD, Patterson AV, Kingsman SM, Kan O, Griffiths L;  
 PI Mitochondrion K;  
 XX  
 DR WPI: 1999-540852/45.  
 XX  
 PT New prodrug activating agent targeted to selected cells or tissues,  
 PT particularly hypoxic cells, for treating e.g. tumors or inflammation -  
 XX  
 FS Example 9B; Page 92; 149pp; English.  
 XX  
 CC The invention provides a new prodrug activating agent that comprises:  
 CC (i) a localization domain (LD); other than a tumor-selective antibody) and  
 CC encoding a cytochrome P450 and under control of at least one constitutive  
 CC or inducible expression control sequence or (iii) a modified  
 CC hematopoietic stem cell (MISC) containing at least one nucleic acid  
 CC encoding a PAB and under control of elements as in (ii). The prodrug  
 CC activating agent or vectors that express them, are specifically used to  
 CC treat tumors, inflammation, atherosclerosis and muscular dystrophy, but  
 CC may also be used to treat many other conditions, e.g. cerebral malaria,  
 CC rheumatoid arthritis, or conditions associated with hypoxia, hypoglycemia  
 CC or ischemia, or to deliver antibiotics, antiviral agents, analgesics,  
 CC anesthetics, anti-inflammatories, antineoplastic agents and diagnostic  
 CC agents. LD optimize activity of PAB, e.g. by delivering it to selected  
 CC locations or by delivering it to neighboring cells (bystander effect),  
 CC and allow a reduction in dose of prodrug, and thus of systemic side-  
 CC effects. Nucleic acids encoding the agent may be expressed selectively  
 CC in hypoxic cells. Sequences AAZ0777d-79 represent primers for amplifying  
 CC a membrane translocating sequence (MIS). This is used in the  
 CC construction of a vector expressing a fusion protein comprising a  
 CC 514bp, human P450 reductase derivative alp450R and a MIS.  
 XX  
 SQ Sequence 46 BP; 4 A; 19 C; 9 G; 14 T; 0 other;

Query Match 79.0%; Score 15.8; DB 20; Length 46;  
 Best Local Similarity 89.5%; Prod. No. 476-02;  
 Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

07 1 GAGAGATCTCTCTGGG 19  
 10 111111111111111111  
 10 11 GAGAGATCTCTCTGGG 29

RESULT 12

AA095108/c  
 ID AA095108 standard: DNA: 23 BP.  
 AC AA095108;  
 XX  
 DE 20-MAY-2002 (first entry)  
 XX  
 DE 10beta2 gene specific probe.  
 XX  
 KW Aldosterone; cyclooxygenase-2; cardiovascular; eplerenone; cardiant;  
 KW vasodilator; antihypertensive; cerebroprotective; thrombolytic; rat;  
 KW antitumoral; anti-inflammatory; vulnery; antibacterial; vinorelb; ss;  
 KW nephrotropic; transforming growth factor beta 1; 10beta2; probe.  
 XX  
 OS Rattus sp.  
 XX  
 PN W0200204759-A2.  
 XX  
 PD 07-FEB-2002.  
 XX  
 PF 26-JUL-2001; 2001W01S23601.  
 XX  
 PR 27-JUL-2000; 2000MS-221364P.  
 PR 12-JAN-2001; 2001US-261497P.  
 XX  
 FA (PHAA) PHARMACIA CORP.  
 XX  
 PI Koehn R, Zack MD, McMahon EG;  
 PI WPI: 2002-227077/28.  
 XX  
 PT Method for treating or preventing inflammation-related cardiovascular  
 PT disorders comprises administration of an aldosterone antagonist and  
 PT cyclooxygenase-2 inhibitor combination -  
 XX  
 FS Example 18; Page 160; 273pp; English.  
 XX  
 CC The invention provides a method for treating or preventing an  
 CC inflammation-related cardiovascular disorder. The method involves  
 CC administration of an aldosterone antagonist and cyclooxygenase-2  
 CC inhibitor combination or their salts. The method is used to treat or  
 CC prevent inflammation-related cardiovascular disorders in the heart,  
 CC kidney and/or brain, e.g. coronary artery disease, aneurysm, embolism,  
 CC arteriosclerosis, atherosclerosis, myocardial infarction, thrombosis,  
 CC stroke, aneurysm, vascular plaque inflammation, vascular plaque rupture,  
 CC Kawasaki disease, vascular or valvular calcification, trauma, surgically-  
 CC bacterial or viral induced inflammation. The use of eplerenone in  
 CC conjunction with the aldosterone receptor antagonist markedly attenuates  
 CC the initial vascular inflammatory response and subsequent myocardial  
 CC injury. Sequences AA095106-138 represent TqMan primers and probes  
 CC destined from known sequences of rat genes such as transforming growth  
 CC factor beta 1 (TGF-beta1), atrial natriuretic factor (ANP), collagen I and  
 CC III, cyclooxygenase-2 (COX-2), osteopontin, monocyte chemoattractant  
 CC protein-1 (MCP-1), intercellular adhesion molecule-1 (ICAM-1), vascular  
 CC adhesion molecule-1 (VCAM-1) and a reference cyclophilin, used in the  
 CC course of the invention.

SQ Sequence 23 BP; 8 A; 7 C; 5 G; 4 T; 0 other;

Query Match 77.0%; Score 15.4; DB 24; Length 23;  
 Best Local Similarity 94.1%; Prod. No. 526-02;  
 Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 4 GAGATCTCTCTGGG 20



PS Claim 1: Column 47-48; 5pp; English.

XX The invention relates to antisense compounds which inhibit the expression  
 CC of human caspase 8. The antisense compound is useful for diagnosing  
 CC and treating diseases associated with the expression of caspase 8 and  
 CC for prophylaxis e.g. to prevent or delay infection, inflammation or  
 CC tumour formation, and as a research reagent. The present sequence is  
 CC an antisense compound targeted to mouse caspase 8 mRNA.

XX Sequence 20 BP; 5 A; 6 C; 4 G; 5 T; 0 other;

SQ Query Match 69.0%; Score 14.8; DB 22; Length 20;

Best Local Similarity 88.2%; Pred. No. 40-04;

Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 4 GAGATCTCTCTGGG 20

DB 4 GAGATCTCTCTGGG 20

RESULT 16

AAV70942/c

ID AAV70942 standard; DNA; 21 BP.

XX AC

AAV70942;

XX 04 FEB-1999 (first entry)

XX PCR primer used to amplify MAGE-4 mRNA in a nested RT-PCR reaction.

XX MAGE tumour-specific antigen gene; disseminated tumour cell;  
 KW prostate cancer; non-small or small lung cancer; sarcoma;  
 KW malignant melanoma; breast cancer; colorectal cancer;  
 KW tumour adjuvant vaccine; PCR primer; SS.

XX Synthetic.

XX Homo sapiens.

XX W09846788 A2.

XX 22 OCT-1998.

XX 09-APR-1998; 98W-EP02081.

XX 11 APR-1997; 97EP-0106026.

XX (MURK) MICROMET GMBH.

XX Kuter P. Zippelias A;

XX WPI: 1998-594590/50.

XX New MAGE-derived primers detecting disseminated tumour cells -

XX hybridise to nucleic acid complementary to the mRNA of a gene

XX encoding a MAGE tumour-specific antigen, used for tumour adjuvant

XX vaccines

XX claim 1: Page 46; 6pp; English.

XX PCR primers AAV70942 43 are used for external RT-PCR amplification of a

XX MAGE-4 tumour-specific antigen gene. The primers are used for detecting

XX disseminated tumour cells which indicate a cancerous condition, such as

XX a condition related to prostate cancer, non-small or small lung cancer,

XX sarcoma, malignant melanoma, breast cancer or colorectal cancer. The

XX PCR products of this detection can be used to prepare a tumour adjuvant

XX vaccine.

XX Sequence 21 BP; 7 A; 6 C; 5 G; 3 T; 0 other;

SQ Query Match 69.0%; Score 14.8; DB 19; Length 21;

Best Local Similarity 88.2%; Pred. No. 40-04;

Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 4 GAGATCTCTCTGGG 20

DB 4 GAGATCTCTCTGGG 20

XX AC

AAV70942;

XX 05 JUN-2000 (first entry)

XX A. halophila PCR primer-5 for SIM1 gene expression in E. coli.

XX

XX

XX

XX

XX

XX

XX

XX

QY 4 GAGATCTCTCTGGG 20

DB 4 GAGATCTCTCTGGG 20

XX AC

AAV70942;

XX 04 FEB-1999 (first entry)

XX PCR primer used to amplify MAGE-4 mRNA in a nested RT-PCR reaction.

XX MAGE tumour-specific antigen gene; disseminated tumour cell;

XX prostate cancer; non-small or small lung cancer; sarcoma;

XX malignant melanoma; breast cancer; colorectal cancer;

XX tumour adjuvant vaccine; PCR primer; SS.

XX Synthetic.

XX Homo sapiens.

XX W09846788 A2.

XX 22 OCT-1998.

XX 09-APR-1998; 98W-EP02081.

XX 11 APR-1997; 97EP-0106026.

XX (MURK) MICROMET GMBH.

XX Kuter P. Zippelias A;

XX WPI: 1998-594590/50.

XX New MAGE-derived primers detecting disseminated tumour cells -

XX hybridise to nucleic acid complementary to the mRNA of a gene

XX encoding a MAGE tumour-specific antigen, used for tumour adjuvant

XX vaccines

XX claim 1: Page 46; 6pp; English.

XX PCR primers AAV70942 43 are used for internal RT-PCR amplification of a

XX MAGE-4 tumour-specific antigen gene. The primers are used for detecting

XX disseminated tumour cells which indicate a cancerous condition, such as

XX a condition related to prostate cancer, non-small or small lung cancer,

XX sarcoma, malignant melanoma, breast cancer or colorectal cancer. The

XX PCR products of this detection can be used to prepare a tumour adjuvant

XX vaccine.

XX Sequence 21 BP; 7 A; 6 C; 5 G; 3 T; 0 other;

SQ Query Match 69.0%; Score 14.8; DB 19; Length 21;

Best Local Similarity 88.2%; Pred. No. 40-04;

Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 4 GAGATCTCTCTGGG 20

DB 4 GAGATCTCTCTGGG 20

XX AC

AAV70942;

XX 05 JUN-2000 (first entry)

XX A. halophila PCR primer-5 for SIM1 gene expression in E. coli.

XX

XX

XX

XX

XX

XX

XX

XX

XX

XX

XX

XX

XX

XX

XX

XX

XX

XX

XX

XX

XX

XX

XX

XX

XX

XX

XX

XX



XX WP: 1997-470548/44.  
 XX Vector containing sequences encoding antigen and co-stimulatory  
 PT molecule used in vaccine for prevention or treatment of microbial  
 PT infection or tumors  
 XX Example 2: Page 20; 6pp; English.  
 XX This primer is used for the reverse transcriptase PCR amplification of a  
 CC co-stimulatory molecule B7-1. This is used in the construction of a novel  
 CC nucleotide vector containing a sequence encoding at least one antigen and  
 CC a sequence encoding at least one co-stimulatory molecule and a promoter  
 CC coupled to both the encoding sequences. Compositions containing this  
 CC novel vector and a second vector can be used for expressing at least one  
 CC cytokine. The novel nucleotide vector optionally combined with the second  
 CC vector are useful as vaccines to protect against microbial infection and  
 CC to treat infections or neoplastic disease. The vaccines particularly  
 CC induce a cytotoxic T cell (CTL) response. Simultaneous expression of a  
 CC co-stimulatory molecule improves the immune response, particularly where  
 CC the antigen is only weakly immunogenic and the effect is further enhanced  
 CC by cytokines. This allows a reduction in the dose of DNA required. The  
 CC vectors are easy to administer and assemble.  
 XX Sequence 33 BP; 15 A; 6 C; 9 G; 3 T; 0 other;

Query Match 67.0%; Score 13.4; DB 18; Length 33;  
 Best Local Similarity 94.3%; Pred. No. 4.9e+03;  
 Matches 14; Conservative 0; Mismatches 1; Indels 0; Gaps 0;  
 QY 6 AGTCTTCCTCGCT 20  
 II III III III  
 ID 2 x AGTCTTCCTCGCT 9

RESULT 20  
 ARK71874  
 ID ARK71874 standard; DNA; 33 BP.  
 A ARK71874;  
 XX 40-JUL-2002 (first entry)  
 DE Aspergillus niger PCR primer #64.  
 XX Plant antifungal: fungal xylanase; thermostability; xylan; cellulose;  
 KW alcoholic liquid; beer; wine; fruit juice; vegetable juice; agriculture;  
 KW recycling; paper; foodstuff; coffee; plant oil; starch; plant pulp;  
 KW PCR; primer; ss.  
 XX Aspergillus niger.  
 XX EP1184460 A1.  
 XX 06-MAR-2002.  
 XX 29-AUG-2000; 2000EP-0407474.  
 XX 29-AUG-2000; 2000EP-0407474.  
 XX (STAM ) DSM NV.  
 XX Van den Bommerech JP1W, Van der Laan JM, Menke HH, Daran JG;  
 XX WP: 2002-332040/47.  
 XX Protein for, e.g. treating plant material, comprises fungal xylanase  
 PT modified at exposed serine residues or within positions 90-160 .  
 XX Disclosure: Page 53; 74pp; English.  
 XX The present invention relates to a new protein comprising a fungal  
 CC xylanase modified to increase thermostability. The modification is at

CC exposed serine residues or within positions 90-160. The invention is  
 CC used in degrading xylan in cellulose, treating plant material, improving  
 CC filterability and/or reducing viscosity of xylan-containing liquids, improving  
 CC improving filterability or clarifying alcoholic liquids (e.g. beet, wine)  
 CC or fruit or vegetable juices, hydrolysing agricultural residues, in  
 CC recycling materials (e.g. containing paper) in papermaking, for  
 CC thickening foodstuffs, and/or extracting desirable materials (e.g.,  
 CC coffee, plant oil, starch), processing plant pulp, juice or extract.  
 CC the invention provides a novel protein comprising modified xylanase that  
 CC is up to 10 times or more stable than its unmodified counterparts, and  
 CC yet retains a pH optimum that is acidic. The present nucleic acid  
 CC sequence represents one of a collection (ARK71810-ARK71908) of  
 CC Aspergillus niger PCR primers that were used in the methods of the  
 CC invention to modify the xylanases.

SQ Sequence 33 BP; 6 A; 11 C; 8 G; 6 T; 2 other;

Query Match 67.0%; Score 13.4; DB 24; Length 33;  
 Best Local Similarity 94.3%; Pred. No. 4.9e+03;  
 Matches 14; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 4 GAGATTCCTCGCT 18  
 III III III III  
 ID 5 GAGATTCCTCGCT 17

RESULT 21  
 ARK71874  
 ID ARK71874 standard; DNA; 36 BP.  
 XX ARK71874;  
 XX 40-JUL-2002 (first entry)  
 DE Aspergillus niger PCR primer #45.

XX Plant antifungal: fungal xylanase; thermostability; xylan; cellulose;  
 KW alcoholic liquid; beer; wine; fruit juice; vegetable juice; agriculture;  
 KW recycling; paper; foodstuff; coffee; plant oil; starch; plant pulp;  
 KW PCR; primer; ss.  
 XX Aspergillus niger.  
 XX EP1184460 A1.  
 XX 06-MAR-2002.  
 XX 29-AUG-2000; 2000EP-0307374.  
 XX 29-AUG-2000; 2000EP-0407474.  
 XX (STAM ) DSM NV.  
 XX Van den Bommerech JP1W, Van der Laan JM, Menke HH, Daran JG;  
 XX WP: 2002-332040/47.

XX Protein for, e.g. treating plant material, comprises fungal xylanase  
 PT modified at exposed serine residues or within positions 90-160 .  
 XX Disclosure: Page 54; 74pp; English.  
 XX The present invention relates to a new protein comprising a fungal  
 CC xylanase modified to increase thermostability. The modification is at  
 CC exposed serine residues or within positions 90-160. The invention is  
 CC used in degrading xylan in cellulose, treating plant material, improving  
 CC filterability and/or reducing viscosity of xylan-containing liquids,  
 CC improving filterability or clarifying alcoholic liquids (e.g. beer, wine)  
 CC or fruit or vegetable juices, hydrolysing agricultural residues, in  
 CC recycling materials (e.g. containing paper) in papermaking, for  
 CC thickening foodstuffs, and/or extracting desirable materials (e.g.,  
 CC coffee, plant oil, starch), processing plant pulp, juice or extract.  
 CC the invention provides a novel protein comprising modified xylanase that

CC is up to 10 times or more stable than its unmodified counterparts, and  
 CC yet retains a pH optimum that is acidic. The present nucleic acid  
 CC sequence represents one of a collection (ARK71810-ARK71908) of  
 CC Aspergillus niger PCR primers that were used in the methods of the  
 CC invention to modify the xylanases.  
 XX  
 SQ Sequence 36 BP; 8 A; 12 C; 8 G; 6 T; 2 other;

Query Match 67.0%; Score 13.4; DB 24; Length 36;  
 Best Local Similarity 93.8%; Pred. No. 56004;  
 Matches 14; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 4 GAGAGTCTTCCTCT 18  
 II III IIIIIIIII  
 Db 3 GAGTACTTCCTCT 17

## RESULT 22

ARK71875  
 ARK71875 standard; DNA; 49 BP;

XX ARK71875;

XX 30-300-2002 (first entry)

DE Aspergillus niger PCR primer #66.

XX Plant antifungal; fungal xylanase; thermostability; xylan; cellulose;  
 KW alcoholic liquid; beer; wine; fruit juice; vegetable juice; agriculture;  
 KW recycling; paper; foodstuff; coffee; plant oil; starch; plant pulp;  
 KW PCR; primer; SS.

XX Aspergillus niger.

XX EP1184460 A1.

XX 06-MAR-2002.

XX 29-AUG-2000; 2000EP-0407474.

XX 29-AUG-2000; 2000EP-0407474.

XX (STAM ) DSM NV.

XX Van den Hombergh JPTW, Van Der Laan JM, Mounke HH, Baran JG;

XX WP1; 2002 342040/37.

XX Protein for, e.g. treating plant material, comprises fungal xylanase  
 PT modified at exposed serine residues or within positions 90-160

XX Disclosure; Page 54; 74pp; English.

XX The present invention relates to a new protein comprising a fungal  
 CC xylanase modified to increase thermostability. The modification is at  
 CC exposed serine residues or within positions 90-160. The invention is  
 CC used in degrading xylan in cellulose, treating plant material, improving  
 CC filterability and/or reducing viscosity of xylan-containing liquids,  
 CC improving filterability or clarifying alcoholic liquids (e.g. beer, wine)  
 CC or fruit or vegetable juices, hydrolysing agricultural residues, in  
 CC recycling materials (e.g. containing paper) in papermaking, for  
 CC thickening foodstuffs, and/or extracting desirable materials (e.g.  
 CC coffee, plant oil, starch), processing plant pulp, juice or extract.  
 CC The invention provides a novel protein comprising modified xylanase that  
 CC is up to 10 times or more stable than its unmodified counterparts, and  
 CC yet retains a pH optimum that is acidic. The present nucleic acid  
 CC sequence represents one of a collection (ARK71810-ARK71908) of  
 CC Aspergillus niger PCR primers that were used in the methods of the  
 CC invention to modify the xylanases.

XX Sequence 49 BP; 8 A; 12 C; 9 G; 8 T; 2 other;

Query Match

67.0%; Score 13.4; DB 24; Length 39;

Best Local Similarity 93.8%; Pred. No. 56004;

Matches 14; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 4 GAGAGTCTTCCTCT 18  
 II III IIIIIIIII  
 Db 3 GAGTACTTCCTCT 17

## RESULT 23

AAA84848

Id AAA84848 standard; DNA; 19 BP.

XX AAA84848;

XX 04-DEC-2000 (first entry)

DE Cyclin F ribozyme binding site #106.

XX Ribozyme; hairpin; hammerhead; gene therapy; vasotropic;  
 KW restenosis; SS.

XX Mammalia.

XX W6200042765 A2.

XX 08-JUN-2000.

XX 06-DEC-1999; 99WO-0828772.

XX 04-DEC-1998; 98US-0110954.

XX (IMMO-) DEMOSOL INF.

XX Fritz R, Welch EJ, Barber JR, Robbins JM;

XX WP1; 2000 412314/55.

XX New hairpin and hammerhead ribozyme for inhibiting restenosis, cleaves  
 PT RNA encoding a cyclin or cell-cycle dependent kinase other than cdk1,  
 PT pNA and cyclin k1

XX Disclosure; Page 83; 10pp; English.

XX The present invention relates to a hairpin or hammerhead ribozyme,  
 CC designed to cleave RNA encoding a cyclin or cell cycle dependent kinase  
 CC other than cell cycle dependent kinases cdk1, pNA and cyclin k1.  
 CC Representative examples of ribozyme recognition sites are given in  
 CC AAA2415 to AAA86787. The ribozyme of the invention is useful for  
 CC inhibiting restenosis by introduction of the ribozyme into cells.  
 CC The ribozyme is resistant to endonuclease activity and hence is  
 CC efficient in restenosis treatment.

XX Sequence 19 BP; 5 A; 6 C; 3 G; 5 T; 0 other;

Query Match 66.0%; Score 13.2; DB 21; Length 19;

Best Local Similarity 83.9%; Pred. No. 576004;

Matches 15; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 2 CAGACCTCTCTCTCTG 19  
 II III IIIIIIIII

Db 2 CAAAGCTCTCTCTCTG 19

## RESULT 24

AAH60000

Id AAH60000 standard; DNA; 19 BP.

XX AAH60000;

XX 10-SEP-2001 (first entry)

XX Cyclin F ribozyme binding site SEQ ID NO:2424.

XX







GenCore version 5.1.4 p5.4578  
Copyright (c) 1993 - 2003 CompuGen Ltd.

OM nucleic acid nucleic search, using SW model

Run on: March 18, 2003, 10:54:46 : Search time 28.1967 seconds  
(without alignments)  
217.527 Million cell updates/sec

Title: us-09-900-115-5

Perfect score: 20

Sequence: 1 gdecaattctctccatg 20

Scoring table: IDENTIFY\_NUC

Gap: 10, 0, 0, 1, 0

Searched: 44162 seqs, 15338301 residues

Total number of hits satisfying chosen parameters: 609618

Minimum DB seq length: 0

Maximum DB seq length: 50

Post processing: Minimum Match 0%

Maximum Match 100%

Listing first 1000 summaries

Database : Issued\_Parents\_NB.\*

1: /cqn2\_6/ptodata/1/ina/5A\_COMB.seq.\*

2: /cqn2\_6/ptodata/1/ina/5B\_COMB.seq.\*

3: /cqn2\_6/ptodata/1/ina/6A\_COMB.seq.\*

4: /cqn2\_6/ptodata/1/ina/6B\_COMB.seq.\*

5: /cqn2\_6/ptodata/1/ina/PCIOS\_COMB.seq.\*

6: /cqn2\_6/ptodata/1/ina/backlist.seq.\*

Pred. No. is the number of results predicted by chance to have a  
score greater than or equal to the score of the result being printed.  
and is derived by analysis of the total score distribution.

# SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	15.8	79.0	24	4	US-09-186-170-11
2	15.8	79.0	24	4	US-09-562-868-11
3	15.8	79.0	27	4	US-09-186-170-12
4	15.8	79.0	27	4	US-09-562-868-12
5	15.8	79.0	30	4	US-09-186-170-13
6	15.8	79.0	30	4	US-09-562-868-13
7	15.8	79.0	33	4	US-09-186-170-14
8	15.8	79.0	33	4	US-09-562-868-14
9	15.8	79.0	36	4	US-09-186-170-10
10	15.8	79.0	36	4	US-09-562-868-10
11	14.8	66.0	20	4	US-09-447-445-165
12	14.2	66.0	39	3	US-08-648-505-2
13	14.2	66.0	39	4	US-09-277-455-2
14	14.2	66.0	48	1	US-08-471-791-35
15	14.2	66.0	48	5	PCT-US91-01746-35
16	14	65.0	48	4	US-08-505-250-32
17	14	65.0	48	4	US-08-505-250-32
18	14	65.0	40	4	US-08-505-250-33
19	14	65.0	40	4	US-08-505-250-52
20	14	65.0	40	4	US-08-505-250-34
21	14	65.0	40	4	US-08-505-250-52
22	14	65.0	42	4	US-08-505-250-51
23	14	65.0	42	4	US-08-505-250-51
24	12.8	64.0	33	4	US-09-186-170-18
25	12.8	64.0	33	4	US-09-562-868-18
26	12.8	64.0	47	4	US-09-641-638-975
27	12.6	63.0	25	2	US-08-692-787-39

Sequence 39, Appl	25	4	US-09-097-199-39	12.6	63.0	28
Sequence 35, Appl	37	1	US-07-734-225A-35	12.6	63.0	24
Sequence 35, Appl	37	1	US-07-692-995B-35	12.6	63.0	30
Sequence 35, Appl	37	1	US-08-488-457-35	12.6	63.0	31
Sequence 85, Appl	40	4	US-09-091-814-85	12.6	63.0	42
Sequence 45, Appl	46	1	US-07-692-995B-45	12.6	63.0	33
Sequence 310, Appl	47	4	US-09-338-907-310	12.6	63.0	34
Sequence 310, Appl	47	4	US-09-218-207-310	12.6	63.0	35
Sequence 6, Appl	50	1	US-08-325-243A-6	12.6	63.0	36
Sequence 412, Appl	27	1	US-08-758-306-412	12.6	62.0	37
Sequence 3, Appl	34	3	US-08-793-666-3	12.4	62.0	38
Sequence 2, Appl	37	2	US-09-157-206-2	12.4	62.0	39
Sequence 2, Appl	37	4	US-09-447-863-2	12.4	62.0	40
Sequence 2, Appl	37	4	US-09-581-426-2	12.4	62.0	41
Sequence 28, Appl	21	4	US-09-123-030-28	12.2	61.0	42
Sequence 6, Appl	22	3	US-08-494-151-6	12.2	61.0	43
Sequence 40, Appl	23	3	US-08-470-335-40	12.2	61.0	44
Sequence 40, Appl	23	4	US-08-470-339-40	12.2	61.0	45
Sequence 40, Appl	23	4	US-08-467-602-40	12.2	61.0	46
Sequence 59, Appl	31	3	US-08-938-835A-59	12.2	61.0	47
Sequence 24, Appl	40	4	US-09-306-290-24	12.2	61.0	48
Sequence 6, Appl	42	1	US-07-847-743B-6	12.2	61.0	49
Sequence 6, Appl	42	1	US-08-456-201-6	12.2	61.0	50
Sequence 6, Appl	42	2	US-08-330-161-6	12.2	61.0	51
Sequence 6, Appl	42	2	US-08-456-241-6	12.2	61.0	52
Sequence 6, Appl	42	2	US-08-440-401-6	12.2	61.0	53
Sequence 6, Appl	42	2	US-08-419-878B-6	12.2	61.0	54
Sequence 6, Appl	42	4	US-09-173-480-6	12.2	61.0	55
Sequence 6, Appl	42	5	PCT-US92-04295A-6	12.2	61.0	56
Sequence 59, Appl	48	3	US-08-864-473-59	12.2	61.0	57
Sequence 59, Appl	48	4	US-09-440-523-59	12.2	61.0	58
Sequence 34, Appl	23	4	US-09-641-259B-34	12	60.0	59
Sequence 10, Appl	29	3	US-08-874-563-10	12	60.0	60
Sequence 49, Appl	35	3	US-08-300-928C-49	12	60.0	61
Sequence 49, Appl	35	3	US-08-430-944D-49	12	60.0	62
Sequence 49, Appl	35	3	US-08-430-014-49	12	60.0	63
Sequence 49, Appl	35	3	US-08-431-184-49	12	60.0	64
Sequence 1, Appl	36	1	US-07-862-021B-1	12	60.0	65
Sequence 2, Appl	36	1	US-07-862-021B-2	12	60.0	66
Sequence 4, Appl	36	1	US-07-862-021B-4	12	60.0	67
Sequence 5, Appl	36	1	US-07-862-021B-5	12	60.0	68
Sequence 1, Appl	36	1	US-08-313-288B-1	12	60.0	69
Sequence 2, Appl	36	1	US-08-313-288B-2	12	60.0	70
Sequence 4, Appl	36	1	US-08-313-288B-4	12	60.0	71
Sequence 5, Appl	36	1	US-08-313-288B-5	12	60.0	72
Sequence 1, Appl	36	5	PCT-US93-03164-1	12	60.0	73
Sequence 2, Appl	36	5	PCT-US93-03164-2	12	60.0	74
Sequence 4, Appl	36	5	PCT-US93-03164-4	12	60.0	75
Sequence 5, Appl	36	5	PCT-US93-03164-5	12	60.0	76
Sequence 12, Appl	45	4	US-09-518-914-12	12	60.0	77
Sequence 3, Appl	47	1	US-07-990-893-3	12	60.0	78
Sequence 704, Appl	47	4	US-09-641-638-704	12	60.0	79
Sequence 1044, Appl	47	4	US-09-641-638-1044	12	60.0	80
Sequence 5, Appl	48	1	US-07-734-225A-5	12	60.0	81
Sequence 5, Appl	48	1	US-07-692-995B-5	12	60.0	82
Sequence 5, Appl	48	1	US-08-488-457-5	12	60.0	83
Sequence 5, Appl	48	2	US-08-338-7930-5	12	60.0	84
Sequence 5, Appl	48	2	US-08-431-459A-5	12	60.0	85
Sequence 36, Appl	48	3	US-08-338-579A-36	12	60.0	86
Sequence 36, Appl	48	5	PCT-US94-09851-36	12	60.0	87
Sequence 18, Appl	49	4	US-09-091-814-18	12	60.0	88
Sequence 76, Appl	50	1	US-08-171-489-76	12	60.0	89
Sequence 76, Appl	50	1	US-08-123-936-76	12	60.0	90
Sequence 76, Appl	50	3	US-08-475-228A-76	12	60.0	91
Sequence 76, Appl	50	3	US-08-482-080A-76	12	60.0	92
Sequence 2, Appl	50	3	US-08-950-860-2	12	60.0	93
Sequence 13, Appl	50	4	US-09-091-814-13	12	60.0	94
Sequence 76, Appl	50	4	US-09-354-947-76	12	60.0	95
Sequence 76, Appl	50	5	PCT-US93-12388-76	12	60.0	96
Sequence 35, Appl	20	3	US-09-226-568-35	11.8	59.0	97
Sequence 147, Appl	20	4	US-09-484-617-147	11.8	59.0	98
Sequence 43, Appl	21	4	US-07-882-848E-43	11.8	59.0	99
Sequence 21, Appl	21	1	US-09-217-490-21	11.8	59.0	100













841	10	50.0	24	1	US-08-152-621-32	Sequence 32, Appl	c 904	10	50.0	49	4	US-08-821-278A-3	Sequence 3, Appl
842	10	50.0	24	1	US-08-423-383-50	Sequence 50, Appl	905	10	50.0	40	2	US-08-857-946-103	Sequence 103, Appl
843	10	50.0	24	1	US-08-423-383-86	Sequence 86, Appl	906	10	50.0	40	2	US-08-970-740-103	Sequence 103, Appl
844	10	50.0	24	1	US-08-620-467A-53	Sequence 53, Appl	c 907	10	50.0	40	4	US-09-262-773-90	Sequence 90, Appl
845	10	50.0	24	1	US-08-448-572-54	Sequence 54, Appl	908	10	50.0	40	4	US-09-411-977-40	Sequence 40, Appl
846	10	50.0	24	2	US-08-437-453A-50	Sequence 50, Appl	909	10	50.0	40	4	US-09-054-281-5	Sequence 5, Appl
847	10	50.0	24	2	US-08-437-453A-86	Sequence 86, Appl	c 910	10	50.0	41	1	US-08-463-115-80	Sequence 80, Appl
848	10	50.0	24	2	US-08-466-103A-20	Sequence 20, Appl	c 911	10	50.0	41	1	US-08-463-115-80	Sequence 80, Appl
849	10	50.0	24	3	US-08-559-205-57	Sequence 57, Appl	c 912	10	50.0	41	1	US-08-317-432A-44	Sequence 44, Appl
840	10	50.0	24	3	US-08-041-090B-54	Sequence 54, Appl	c 913	10	50.0	41	1	US-08-317-432A-46	Sequence 46, Appl
841	10	50.0	24	4	US-09-237-712-84	Sequence 84, Appl	914	10	50.0	41	1	US-08-317-432A-48	Sequence 48, Appl
842	10	50.0	24	4	US-09-367-699-12	Sequence 12, Appl	c 915	10	50.0	41	1	US-08-317-432A-50	Sequence 50, Appl
843	10	50.0	24	4	US-09-042-453-339	Sequence 339, Appl	c 916	10	50.0	42	1	US-08-465-388-80	Sequence 80, Appl
844	10	50.0	24	4	US-09-051-363-15	Sequence 15, Appl	c 917	10	50.0	42	1	US-08-154-916-4	Sequence 4, Appl
845	10	50.0	24	4	US-08-758-417A-187	Sequence 187, Appl	c 918	10	50.0	42	1	US-08-719-331-6	Sequence 6, Appl
846	10	50.0	24	4	US-09-142-956B-11	Sequence 11, Appl	c 919	10	50.0	43	3	US-08-857-946-102	Sequence 102, Appl
847	10	50.0	24	4	US-09-641-259B-12	Sequence 12, Appl	c 920	10	50.0	43	3	US-08-970-740-102	Sequence 102, Appl
848	10	50.0	24	5	PCT-US92-05035-32	Sequence 32, Appl	c 921	10	50.0	45	1	US-07-921-796-2	Sequence 2, Appl
849	10	50.0	24	5	PCT-US93-07541-24	Sequence 24, Appl	c 922	10	50.0	47	3	US-08-448-446B-12	Sequence 12, Appl
850	10	50.0	25	1	US-08-694-835-4	Sequence 4, Appl	c 923	10	50.0	47	4	US-09-641-638-1277	Sequence 1277, Appl
851	10	50.0	25	1	US-08-317-432A-43	Sequence 43, Appl	c 924	10	50.0	48	2	US-08-850-049-39	Sequence 39, Appl
852	10	50.0	25	1	US-08-317-432A-45	Sequence 45, Appl	c 925	10	50.0	48	2	US-08-050-478-39	Sequence 39, Appl
853	10	50.0	25	2	US-08-929-101-4	Sequence 4, Appl	c 926	10	50.0	48	4	US-09-414-117-39	Sequence 39, Appl
854	10	50.0	25	4	US-09-457-708-26	Sequence 26, Appl	c 927	10	50.0	50	1	US-09-678-437-39	Sequence 39, Appl
855	10	50.0	25	5	PCT-US95-01639-4	Sequence 4, Appl	c 928	10	50.0	50	1	US-08-050-681A-4	Sequence 4, Appl
856	10	50.0	26	1	US-08-152-621-33	Sequence 33, Appl	c 929	10	50.0	50	1	US-08-171-389-470	Sequence 470, Appl
857	10	50.0	26	5	PCT-US92-05035-33	Sequence 33, Appl	c 930	10	50.0	50	1	US-08-123-936-470	Sequence 470, Appl
858	10	50.0	26	5	PCT-US93-07541-25	Sequence 25, Appl	c 931	10	50.0	50	2	US-08-475-228A-470	Sequence 470, Appl
859	10	50.0	27	1	US-08-758-406-222	Sequence 222, Appl	c 932	10	50.0	50	3	US-08-482-080A-470	Sequence 470, Appl
860	10	50.0	27	2	US-08-256-568B-1	Sequence 1, Appl	c 933	10	50.0	50	4	US-08-998-099-314	Sequence 314, Appl
861	10	50.0	27	3	US-08-467-023-147	Sequence 147, Appl	c 934	10	50.0	50	5	US-09-354-947-470	Sequence 470, Appl
862	10	50.0	27	3	US-08-467-023-147	Sequence 147, Appl	935	10	50.0	50	5	PCT-US94-04275-4	Sequence 4, Appl
863	10	50.0	27	4	US-09-038-369B-10	Sequence 10, Appl	936	9.8	49.0	14	1	US-08-308-196A-11	Sequence 11, Appl
864	10	50.0	27	4	US-08-786-455B-10	Sequence 10, Appl	c 937	9.8	49.0	14	1	US-08-308-196A-11	Sequence 11, Appl
865	10	50.0	27	4	US-08-832-488-4	Sequence 4, Appl	938	9.8	49.0	14	1	US-08-308-196A-12	Sequence 12, Appl
866	10	50.0	28	1	US-08-280-443-36	Sequence 36, Appl	c 939	9.8	49.0	14	1	US-08-308-196A-12	Sequence 12, Appl
867	10	50.0	28	1	US-08-457-459-36	Sequence 36, Appl	940	9.8	49.0	14	5	PCT-US91-04744-33	Sequence 33, Appl
868	10	50.0	28	5	US-08-555-678-36	Sequence 36, Appl	c 941	9.8	49.0	14	5	PCT-US91-04744-33	Sequence 33, Appl
869	10	50.0	28	5	PCT-US95-02275-36	Sequence 36, Appl	942	9.8	49.0	14	5	PCT-US91-04744-33	Sequence 33, Appl
870	10	50.0	29	2	US-08-960-022-26	Sequence 26, Appl	c 943	9.8	49.0	14	5	PCT-US91-04744-33	Sequence 33, Appl
871	10	50.0	29	3	US-09-106-216-52	Sequence 52, Appl	c 944	9.8	49.0	14	5	PCT-US91-06452-11	Sequence 11, Appl
872	10	50.0	29	4	US-09-458-972-237	Sequence 237, Appl	c 945	9.8	49.0	14	5	PCT-US91-06452-11	Sequence 11, Appl
873	10	50.0	30	1	US-08-430-615-27	Sequence 27, Appl	946	9.8	49.0	14	5	PCT-US91-06452-12	Sequence 12, Appl
874	10	50.0	30	1	US-08-187-780-7	Sequence 7, Appl	c 947	9.8	49.0	14	5	PCT-US91-06452-12	Sequence 12, Appl
875	10	50.0	30	1	US-07-832-905B-18	Sequence 18, Appl	948	9.8	49.0	14	5	PCT-US92-01015-17	Sequence 17, Appl
876	10	50.0	30	1	US-08-123-702-40	Sequence 40, Appl	c 949	9.8	49.0	14	5	PCT-US92-01015-17	Sequence 17, Appl
877	10	50.0	30	2	US-08-468-763-8	Sequence 8, Appl	950	9.8	49.0	14	6	5258302-30	Patent No. 5258302
878	10	50.0	30	2	US-08-700-757-18	Sequence 18, Appl	c 951	9.8	49.0	14	6	5258302-30	Patent No. 5258302
879	10	50.0	30	2	US-08-394-996A-8	Sequence 8, Appl	952	9.8	49.0	15	2	US-08-292-620A-56	Sequence 56, Appl
880	10	50.0	30	2	US-08-478-485-7	Sequence 7, Appl	953	9.8	49.0	15	2	US-08-292-620A-56	Sequence 56, Appl
881	10	50.0	30	2	US-08-454-142-6	Sequence 6, Appl	954	9.8	49.0	15	2	US-08-585-684B-49	Sequence 49, Appl
882	10	50.0	30	4	US-09-357-940-6	Sequence 6, Appl	955	9.8	49.0	15	2	US-08-585-684B-50	Sequence 50, Appl
883	10	50.0	30	4	US-08-478-486F-7	Sequence 7, Appl	956	9.8	49.0	15	3	US-09-071-845-56	Sequence 56, Appl
884	10	50.0	31	1	US-08-702-444-41	Sequence 41, Appl	957	9.8	49.0	15	3	US-09-071-845-56	Sequence 56, Appl
885	10	50.0	31	3	US-08-995-156A-15	Sequence 15, Appl	958	9.8	49.0	15	4	US-09-038-074-49	Sequence 49, Appl
886	10	50.0	31	3	US-08-995-156A-17	Sequence 17, Appl	959	9.8	49.0	15	4	US-09-038-074-49	Sequence 49, Appl
887	10	50.0	31	4	US-08-637-823B-14	Sequence 14, Appl	c 960	9.8	49.0	17	1	US-08-433-124A-564	Sequence 564, Appl
888	10	50.0	31	4	US-08-419-281-16	Sequence 16, Appl	c 961	9.8	49.0	17	1	US-08-433-124A-564	Sequence 564, Appl
889	10	50.0	31	4	US-09-419-281-17	Sequence 17, Appl	962	9.8	49.0	17	2	US-08-532-727A-27	Sequence 27, Appl
890	10	50.0	33	3	US-08-793-408-9	Sequence 9, Appl	963	9.8	49.0	17	2	US-08-532-727A-28	Sequence 28, Appl
891	10	50.0	33	3	US-09-149-762A-9	Sequence 9, Appl	964	9.8	49.0	17	4	US-08-584-040-7914	Sequence 7914, Appl
892	10	50.0	33	5	PCT-US94-07672-2	Sequence 2, Appl	965	9.8	49.0	17	4	US-08-584-040-7915	Sequence 7915, Appl
893	10	50.0	34	3	US-08-995-156A-15	Sequence 15, Appl	966	9.8	49.0	18	1	US-07-977-284A-101	Sequence 101, Appl
894	10	50.0	34	4	US-09-419-281-15	Sequence 15, Appl	967	9.8	49.0	18	1	US-08-463-240A-1195	Sequence 1195, Appl
895	10	50.0	35	1	US-07-731-157A-8	Sequence 8, Appl	968	9.8	49.0	18	2	US-08-505-509-17	Sequence 17, Appl
896	10	50.0	35	2	US-08-541-780-8	Sequence 8, Appl	969	9.8	49.0	18	2	US-08-491-690A-17	Sequence 17, Appl
897	10	50.0	35	4	US-09-367-012-6	Sequence 6, Appl	970	9.8	49.0	18	2	US-08-532-727A-7	Sequence 7, Appl
898	10	50.0	35	4	US-09-777-157A-6	Sequence 6, Appl	971	9.8	49.0	18	2	US-08-532-727A-8	Sequence 8, Appl
899	10	50.0	36	3	US-08-747-221B-63	Sequence 63, Appl	972	9.8	49.0	18	2	US-08-256-426B-101	Sequence 101, Appl
900	10	50.0	36	4	US-09-095-051-63	Sequence 63, Appl	973	9.8	49.0	18	2	US-09-197-478-34	Sequence 34, Appl
901	10	50.0	38	2	US-08-857-946-114	Sequence 114, Appl	974	9.8	49.0	18	4	US-08-469-920B-1	Sequence 1, Appl
902	10	50.0	38	3	US-08-970-740-113	Sequence 113, Appl	c 975	9.8	49.0	18	4	US-09-721-822A-115	Sequence 115, Appl
903	10	50.0	38	3	US-08-535-057A-9	Sequence 9, Appl	976	9.8	49.0	18	4	US-08-584-040-8492	Sequence 8492, Appl



```

: TYPE: DNA
: ORGANISM: Artificial Sequence
: FEATURE:
: OTHER INFORMATION: Description of Artificial Sequence: Nucleotide
: OTHER INFORMATION: sequence encoding peptide which transports
: OTHER INFORMATION: proteins through the cell membrane into the cell
: PUBLICATION INFORMATION:
: TITLE: "Genetic Engineering of Proteins with Cell Membrane
: TITLE: Permeability"
: JOURNAL: Nature Biotechnology
: VOLUME: 16
: ISSUE: April
: PAGES: 470-475
: DATE: 1998-04-01
: RELEVANT RESIDUES: 1 TO 12
US-09-900-170-12

Query Match 79.0% Score 15.8; DB 4; Length 27;
Best Local Similarity 89.5%; Pred. No. 62;
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1 GGAGGAGTCTCTCTCGG 19
      ||||| ||||| ||||| ||
Db 1 GGAGGAGTCTCTCTCGG 19

RESULT 4
US-09-562-868-12
: Sequence 12, Application US/09562868
: Patent No. 6432680
: GENERAL INFORMATION:
: APPLICANT: Lin, Yao-Zhong
: APPLICANT: Donahue, John P.
: APPLICANT: Rojas, Mauricio
: APPLICANT: Tao, Zhongjia
: TITLE OF INVENTION: "Sequence and Method for Genetic Engineering of
: TITLE OF INVENTION: Proteins with Cell Membrane Translocating Activity"
: FILE REFERENCE: 22000-009702
: CURRENT APPLICATION NUMBER: US/09/562,868
: CURRENT FILING DATE: 2000-05-01
: PRIOR APPLICATION NUMBER: 60/080,083
: PRIOR FILING DATE: 1998-03-41
: PRIOR APPLICATION NUMBER: 09/186,170
: PRIOR FILING DATE: 1998-11-04
: NUMBER OF SEQ ID NOS: 18
: SOFTWARE: Patent In Ver. 2.0
: SEQ ID NO 12
: LENGTH: 27
: TYPE: DNA
: ORGANISM: Artificial Sequence
: FEATURE:
: OTHER INFORMATION: Description of Artificial Sequence: Nucleotide
: OTHER INFORMATION: sequence encoding peptide which transports
: PUBLICATION INFORMATION:
: AUTHORS: Rojas, M. et al.
: TITLE: "Genetic Engineering of Proteins with Cell Membrane
: TITLE: Permeability"
: JOURNAL: Nature Biotechnology
: VOLUME: 16
: ISSUE: April
: PAGES: 470-475
: DATE: 1998-04-01
US-09-562-868-12

Query Match 79.0% Score 15.8; DB 4; Length 27;
Best Local Similarity 89.5%; Pred. No. 62;
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1 GGAGGAGTCTCTCTCGG 19
      ||||| ||||| ||||| ||
Db 1 GGAGGAGTCTCTCTCGG 19

```

```

RESULT 5
US-09-186-170-14
: Sequence 13, Application US/09186170
: Patent No. 6248558
: GENERAL INFORMATION:
: APPLICANT: Lin, Yao-Zhong
: APPLICANT: Donahue, John P.
: APPLICANT: Rojas, Mauricio
: APPLICANT: Tao, Zhongjia
: TITLE OF INVENTION: "Sequence and Method for Genetic Engineering of
: TITLE OF INVENTION: Proteins with Cell Membrane Translocating Activity"
: FILE REFERENCE: 099841
: CURRENT APPLICATION NUMBER: US/09/186,170
: CURRENT FILING DATE: 1998-11-04
: EARLIER APPLICATION NUMBER: 60/080,083
: EARLIER FILING DATE: 1998-03-41
: NUMBER OF SEQ ID NOS: 18
: SOFTWARE: Patent In Ver. 2.0
: SEQ ID NO 13
: LENGTH: 30
: TYPE: DNA
: ORGANISM: Artificial Sequence
: FEATURE:
: OTHER INFORMATION: Description of Artificial Sequence: Nucleotide
: OTHER INFORMATION: sequence encoding peptide which transports
: PUBLICATION INFORMATION:
: TITLE: "Genetic Engineering of Proteins with Cell Membrane
: TITLE: Permeability"
: JOURNAL: Nature Biotechnology
: VOLUME: 16
: ISSUE: April
: PAGES: 370-475
: DATE: 1998-04-01
: RELEVANT RESIDUES: 1 TO 12
US-09-186-170-14

Query Match 79.0% Score 15.8; DB 4; Length 40;
Best Local Similarity 89.5%; Pred. No. 63;
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1 GCAGGAGTCTCTCTCGG 19
      ||||| ||||| ||||| ||
Db 1 GCAGGAGTCTCTCTCGG 19

RESULT 6
US-09-562-868-13
: Sequence 13, Application US/09562868
: Patent No. 6432680
: GENERAL INFORMATION:
: APPLICANT: Lin, Yao-Zhong
: APPLICANT: Donahue, John P.
: APPLICANT: Rojas, Mauricio
: APPLICANT: Tao, Zhongjia
: TITLE OF INVENTION: "Sequence and Method for Genetic Engineering of
: TITLE OF INVENTION: Proteins with Cell Membrane Translocating Activity"
: FILE REFERENCE: 22000-009702
: CURRENT APPLICATION NUMBER: US/09/562,868
: CURRENT FILING DATE: 2000-05-01
: PRIOR APPLICATION NUMBER: 60/080,083
: PRIOR FILING DATE: 1998-03-41
: PRIOR APPLICATION NUMBER: 09/186,170
: PRIOR FILING DATE: 1998-11-04
: NUMBER OF SEQ ID NOS: 18
: SOFTWARE: Patent In Ver. 2.0
: SEQ ID NO 13
: LENGTH: 30
: TYPE: DNA

```



: OTHER INFORMATION: sequence encoding peptide which transports  
 : OTHER INFORMATION: proteins through the cell membrane into the cell  
 : PUBLICATION INFORMATION:  
 : TITLE: "Genetic Engineering of Proteins with Cell Membrane  
 : TITLE: Permeability"  
 : JOURNAL: Nature Biotechnology  
 : VOLUME: 16  
 : ISSUE: April  
 : PAGES: 470-475  
 : DATE: 1998-04-01  
 : RELEVANT RESIDUES: 1 TO 12  
 US-09-186-170-10

Query Match 79.0% Score 15.8; DB 4; Length 36;  
 Best Local Similarity 89.5% Pred. No. 64;  
 Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1 GAGAGAGTCTCTGGG 19  
 DB 1 GAGAGAGTCTCTGGG 19

RESULT 1:  
 US-09-562-868-10  
 : Sequence 10, Application US/09562868  
 : Patent No. 6432680  
 : GENERAL INFORMATION:  
 : APPLICANT: Lin, Yao-Zhong  
 : APPLICANT: Donahue, John P.  
 : APPLICANT: Rojas, Mauricio  
 : APPLICANT: Tan, Zhongjia  
 : TITLE OF INVENTION: "Sequence and Method for Genetic Engineering of  
 : Proteins with Cell Membrane Translocating Activity"  
 : TITLE OF INVENTION: Proteins with Cell Membrane Translocating Activity"  
 : FILE REFERENCE: 22000-009702  
 : CURRENT APPLICATION NUMBER: US/09/562,868  
 : PRIOR FILING DATE: 2000-05-01  
 : PRIOR APPLICATION NUMBER: 60/080,083  
 : PRIOR FILING DATE: 1998-03-31  
 : PRIOR APPLICATION NUMBER: 09/186,170  
 : PRIOR FILING DATE: 1998-11-04  
 : NUMBER OF SEQ ID NOS: 18  
 : SOFTWARE: Patent In Ver. 2.0  
 : SEQ ID NO 10  
 : LENGTH: 36  
 : TYPE: DNA  
 : ORGANISM: Artificial Sequence  
 : FEATURE:  
 : OTHER INFORMATION: Description of Artificial Sequence: Nucleotide  
 : OTHER INFORMATION: sequence encoding peptide which transports  
 : OTHER INFORMATION: proteins through the cell membrane into the cell  
 : PUBLICATION INFORMATION:  
 : AUTHOR(S): Rojas, M. et al.  
 : TITLE: "Genetic Engineering of Proteins with Cell Membrane  
 : TITLE: Permeability"  
 : JOURNAL: Nature Biotechnology  
 : VOLUME: 16  
 : ISSUE: April  
 : PAGES: 470-475  
 : DATE: 1998-04-01  
 US-09-562-868-10

Query Match 79.0% Score 15.8; DB 4; Length 36;  
 Best Local Similarity 89.5% Pred. No. 64;  
 Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1 GAGAGAGTCTCTGGG 19  
 DB 1 GAGAGAGTCTCTGGG 19

RESULT 1:  
 US-09-487-445-165

: Sequence 165, Application US/09487445  
 : Patent No. 6256600  
 : GENERAL INFORMATION:  
 : APPLICANT: Blood Abund  
 : APPLICANT: Lex M. Cowart  
 : TITLE OF INVENTION: ANTISENSE MODULATION OF CASPASE 8 EXPRESSION  
 : FILE REFERENCE: KIS-0107  
 : CURRENT APPLICATION NUMBER: US/09/487,445  
 : CURRENT FILING DATE: 2000-01-19  
 : NUMBER OF SEQ ID NOS: 176  
 : SEQ ID NO 165  
 : LENGTH: 20  
 : TYPE: DNA  
 : ORGANISM: Artificial Sequence  
 : FEATURE:  
 : OTHER INFORMATION: Antisense oligonucleotide  
 US-09-487-445-165

Query Match 69.0% Score 13.8; DB 4; Length 20;  
 Best Local Similarity 88.2% Pred. No. 5,1e+02;  
 Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 4 GAGAGTCTCTGGG 20  
 DB 4 GAGAGTCTCTGGG 20

RESULT 12  
 US-08-648-506-2  
 : Sequence 2, Application US/08648506  
 : Patent No. 6017540  
 : GENERAL INFORMATION:  
 : APPLICANT: BEUDEKER, Robert F.  
 : APPLICANT: KIES, Arto K.  
 : TITLE OF INVENTION: PHOSPHOLIPASES IN ANIMAL FEED  
 : FILE REFERENCE: 246152007400  
 : CURRENT APPLICATION NUMBER: US/08/648,506  
 : CURRENT FILING DATE: 1995-05-15  
 : EARLIER APPLICATION NUMBER: EPO 95201266.4  
 : EARLIER FILING DATE: 1995-05-15  
 : EARLIER APPLICATION NUMBER: EPO 95202442.0  
 : EARLIER FILING DATE: 1995-08-08  
 : NUMBER OF SEQ ID NOS: 4  
 : SOFTWARE: Patent In Ver. 2.0  
 : SEQ ID NO 2  
 : LENGTH: 39  
 : TYPE: DNA  
 : ORGANISM: mammalian  
 US-08-648-506-2

Query Match 66.0% Score 13.2; DB 3; Length 39;  
 Best Local Similarity 83.3% Pred. No. 1e+03;  
 Matches 15; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 2 CAGAGAGTCTCTGGG 19  
 DB 20 CAGAGAGTCTCTGGG 37

RESULT 14  
 US-09-277-455-2  
 : Sequence 2, Application US/09277455  
 : Patent No. 6184749  
 : GENERAL INFORMATION:  
 : APPLICANT: BEUDEKER, Robert F.  
 : APPLICANT: KIES, Arto K.  
 : TITLE OF INVENTION: PHOSPHOLIPASES IN ANIMAL FEED  
 : FILE REFERENCE: 246152007400  
 : CURRENT APPLICATION NUMBER: US/09/277,455  
 : CURRENT FILING DATE: 1999-03-26  
 : PRIOR APPLICATION NUMBER: 08/648,506  
 : PRIOR FILING DATE: 1995-05-15  
 : PRIOR APPLICATION NUMBER: EPO 95202442.0

: PRIOR FILING DATE: 1995-08-08  
 : NUMBER OF SEQ ID NOS: 4  
 : SOFTWARE: Patent In Ver. 2.0  
 : SEQ ID NO 2  
 : LENGTH: 49  
 : TYPE: DNA  
 : ORGANISM: mammalian  
 US 09/277-455, 2

Query Match 66.0%; Score 13.2; DB 4; Length 49;

Best Local Similarity 83.4%; Pred. No. 1.0e+03;  
 Matches 15; Conservative 0; Mismatches 4; Indels 0; Gaps 0;  
 QY 2 CAGAGTCTCTCTCGG 19  
 111111 11111 111  
 Db 20 CAGAGTCTCTCTCGG 47

## RESULT 14

US 08 471 791 45  
 : Sequence 45, Application US/08471791  
 : Patent No. 5,724,595  
 : GENERAL INFORMATION:  
 : APPLICANT: Thompson, Gregory A  
 : APPLICANT: Knudt, Vic C  
 : TITLE OF INVENTION: Plant Desaturases Compositions  
 : TITLE OF INVENTION: and Uses  
 : NUMBER OF SEQUENCES: 45  
 : CORRESPONDENCE ADDRESS:  
 : ADDRESSEE: Calgene, Inc.  
 : STREET: 1920 Fifth Street  
 : CITY: Davis  
 : STATE: California  
 : COUNTRY: USA  
 : ZIP: 95616  
 : COMPUTER READABLE FORM:  
 : MEDIUM TYPE: Diskette, 3.50 inch, 2.0 MB storage  
 : COMPUTER: Apple Macintosh  
 : OPERATING SYSTEM: Macintosh 7.1  
 : SOFTWARE: Microsoft Word 5.1 (a)  
 : CURRENT APPLICATION DATA:  
 : APPLICATION NUMBER: US/08/471,791  
 : FILING DATE: 6-JUNE-95  
 : CLASSIFICATION: 435  
 : PRIOR APPLICATION DATA:  
 : APPLICATION NUMBER: 07/762,762  
 : FILING DATE: 16-SEPT-1991  
 : CLASSIFICATION: 435  
 : PRIOR APPLICATION DATA:  
 : APPLICATION NUMBER: US/08/471,791  
 : FILING DATE: 14-MAR-1991  
 : CLASSIFICATION: 435  
 : PRIOR APPLICATION DATA:  
 : APPLICATION NUMBER: 07/615,784  
 : FILING DATE: 14-NOV-1990  
 : PRIOR APPLICATION DATA:  
 : APPLICATION NUMBER: 07/567,474  
 : FILING DATE: 14-AUG-1990  
 : PRIOR APPLICATION DATA:  
 : APPLICATION NUMBER: 07/494,106  
 : FILING DATE: 16-MAR-1990  
 : ATTORNEY/AGENT INFORMATION:  
 : NAME: Lassetz, Elizabeth  
 : REGISTRATION NUMBER: 41,845  
 : NAME: Donna E. Scherret  
 : REGISTRATION NUMBER: 44,719  
 : NAME: Carl J. Schwedler  
 : REGISTRATION NUMBER: 46,924  
 : REFERENCE/DECKET NUMBER: CGNE 69 5  
 : TELECOMMUNICATION INFORMATION:  
 : TELEPHONE: (916) 753-6414  
 : TELEFAX: (916) 753-1510  
 : TELEX: 450470 CGNE

: INFORMATION FOR SEQ ID NO: 45:  
 : SEQUENCE CHARACTERISTICS:  
 : LENGTH: 48 base pairs  
 : TYPE: nucleic acid  
 : STRANDEDNESS: single  
 : TOPOLOGY: linear  
 : MOLECULE TYPE: other nucleic acid  
 : DESCRIPTION: synthetic oligonucleotide  
 US 08 471 791 45

Query Match 66.0%; Score 13.2; DB 1; Length 48;  
 Best Local Similarity 83.4%; Pred. No. 1.0e+03;  
 Matches 15; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

QY 1 GAGAGTCTCTCTCTG 18  
 111111111111111  
 Db 27 GAGAGTCTCTCTCTT 44

## RESULT 15

US 08471 01746 45  
 : Sequence 45, Application US/TUS9101746  
 : GENERAL INFORMATION:  
 : APPLICANT: Thompson, Gregory A  
 : APPLICANT: Knudt, Vic C  
 : TITLE OF INVENTION: Plant Desaturases Compositions and Uses  
 : NUMBER OF SEQUENCES: 43  
 : CORRESPONDENCE ADDRESS:  
 : ADDRESSEE: Calgene, Inc.  
 : STREET: 1920 Fifth Street  
 : CITY: Davis  
 : STATE: California  
 : COUNTRY: USA  
 : ZIP: 95616  
 : COMPUTER READABLE FORM:  
 : MEDIUM TYPE: Diskette, 3.50 inch, 1.0 MB storage  
 : COMPUTER: Apple Macintosh  
 : OPERATING SYSTEM: Macintosh 6.0.7  
 : SOFTWARE: Microsoft Word 4.0  
 : CURRENT APPLICATION DATA:  
 : APPLICATION NUMBER: US/US91/01746  
 : FILING DATE: 19910414  
 : CLASSIFICATION: 435  
 : PRIOR APPLICATION DATA:  
 : APPLICATION NUMBER: 07/415,784  
 : FILING DATE: 14-NOV-1990  
 : APPLICATION NUMBER: 07/567,474  
 : FILING DATE: 14-AUG-1990  
 : APPLICATION NUMBER: 07/494,106  
 : FILING DATE: 16-MAR-1990  
 : ATTORNEY/AGENT INFORMATION:  
 : NAME: Lassetz, Elizabeth  
 : REGISTRATION NUMBER: 41,845  
 : NAME: Donna E. Scherret  
 : REGISTRATION NUMBER: 44,719  
 : REFERENCE/DECKET NUMBER: CGNE 69 4 WO  
 : TELECOMMUNICATION INFORMATION:  
 : TELEPHONE: (916) 753-6414  
 : TELEFAX: (916) 753-1510  
 : TELEX: 450470 CGNE  
 : INFORMATION FOR SEQ ID NO: 45:  
 : SEQUENCE CHARACTERISTICS:  
 : LENGTH: 48 base pairs  
 : TYPE: NUCLEIC ACID  
 : STRANDEDNESS: single  
 : TOPOLOGY: linear  
 : MOLECULE TYPE: other nucleic acid  
 : DESCRIPTION: synthetic oligonucleotide  
 US 08471 01746 45

Query Match 66.0%; Score 13.2; DB 5; Length 48;  
 Best Local Similarity 83.4%; Pred. No. 1.0e+04;  
 Matches 15; Conservative 0; Mismatches 4; Indels 0; Gaps 0;



```

: TYPE: DNA
: ORGANISM: Artificial Sequence
: FEATURE:
: OTHER INFORMATION: Description of Artificial Sequence: synthetic
: OTHER INFORMATION: DNA Treatment
US-08/505,250 52

```

```

Query Match          65.0%; Score 14; DB 4; Length 40;
Best Local Similarity 100.0%; Pred. No. 1,40004;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

```

```

QY 1 GAGAGAGCTTCTT 14
    11111111111111
DB 22 GAGAGAGCTTCTT 10

```

```

RESULT 20
US-08/505,250 44/c
: Sequence 44; Application US/08505250
: Patent No. 6,422,996
: GENERAL INFORMATION:

```

```

: APPLICANT: Sato, Baruya
: APPLICANT: Yamamoto, Keiji
: APPLICANT: Suzuki, Kokiichi
: APPLICANT: Ikeda, Masahiro
: APPLICANT: Sakadami, Masahiro
: APPLICANT: Taniguchi, Makoto

```

```

: TITLE OF INVENTION: PROTEIN MODIFICATION METHOD

```

```

: FILE REFERENCE: 110-511

```

```

: CURRENT APPLICATION NUMBER: US/08/505,250

```

```

: PRIOR FILING DATE: 1995-11-29

```

```

: PRIOR APPLICATION NUMBER: PCT/JP95/00298

```

```

: PRIOR FILING DATE: 1995-02-27

```

```

: PRIOR APPLICATION NUMBER: JP 198187/94

```

```

: NUMBER OF SEQ ID NOS: 53

```

```

: SOFTWARE: Patent In Ver. 2.0

```

```

: SEQ ID NO 44

```

```

: LENGTH: 40

```

```

: TYPE: DNA

```

```

: ORGANISM: Artificial Sequence

```

```

: FEATURE:

```

```

: OTHER INFORMATION: Description of Artificial Sequence: synthetic

```

```

: OTHER INFORMATION: DNA Treatment

```

```

US-08/505,250 44

```

```

Query Match          65.0%; Score 14; DB 4; Length 40;
Best Local Similarity 100.0%; Pred. No. 1,40004;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

```

```

QY 1 GAGAGAGCTTCTT 14
    11111111111111
DB 22 GAGAGAGCTTCTT 10

```

```

RESULT 21
US-08/505,250 52/c
: Sequence 52; Application US/08505250
: Patent No. 6,422,996
: GENERAL INFORMATION:

```

```

: APPLICANT: Sato, Baruya
: APPLICANT: Yamamoto, Keiji
: APPLICANT: Suzuki, Kokiichi
: APPLICANT: Ikeda, Masahiro
: APPLICANT: Sakadami, Masahiro
: APPLICANT: Taniguchi, Makoto

```

```

: TITLE OF INVENTION: PROTEIN MODIFICATION METHOD

```

```

: FILE REFERENCE: 110-511

```

```

: CURRENT APPLICATION NUMBER: US/08/505,250

```

```

: PRIOR FILING DATE: 1995-11-29

```

```

: PRIOR APPLICATION NUMBER: PCT/JP95/00298

```

```

: NUMBER OF SEQ ID NOS: 53

```

```

: SOFTWARE: Patent In Ver. 2.0

```

```

: SEQ ID NO 44

```

```

: LENGTH: 40

```

```

: TYPE: DNA

```

```

: ORGANISM: Artificial Sequence

```

```

: FEATURE:

```

```

: OTHER INFORMATION: Description of Artificial Sequence: synthetic

```

```

: PRIOR FILING DATE: 1994-08-24
: NUMBER OF SEQ ID NOS: 53
: SOFTWARE: Patent In Ver. 2.0
: SEQ ID NO 42
: LENGTH: 40
: TYPE: DNA
: ORGANISM: Artificial Sequence
: FEATURE:
: OTHER INFORMATION: Description of Artificial Sequence: synthetic
: OTHER INFORMATION: DNA Treatment
US-08/505,250 52

```

```

Query Match          65.0%; Score 14; DB 4; Length 40;
Best Local Similarity 100.0%; Pred. No. 1,40004;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

```

```

QY 1 GAGAGAGCTTCTT 14
    11111111111111
DB 22 GAGAGAGCTTCTT 10

```

```

RESULT 22
US-08/505,250 51
: Sequence 51; Application US/08505250
: Patent No. 6,422,996
: GENERAL INFORMATION:

```

```

: APPLICANT: Sato, Baruya
: APPLICANT: Yamamoto, Keiji
: APPLICANT: Suzuki, Kokiichi
: APPLICANT: Ikeda, Masahiro
: APPLICANT: Sakadami, Masahiro
: APPLICANT: Taniguchi, Makoto

```

```

: TITLE OF INVENTION: PROTEIN MODIFICATION METHOD

```

```

: FILE REFERENCE: 110-511

```

```

: CURRENT APPLICATION NUMBER: US/08/505,250

```

```

: PRIOR FILING DATE: 1995-11-29

```

```

: PRIOR APPLICATION NUMBER: PCT/JP95/00298

```

```

: PRIOR FILING DATE: 1995-02-27

```

```

: PRIOR APPLICATION NUMBER: JP 198187/94

```

```

: NUMBER OF SEQ ID NOS: 53

```

```

: SOFTWARE: Patent In Ver. 2.0

```

```

: SEQ ID NO 51

```

```

: LENGTH: 42

```

```

: TYPE: DNA

```

```

: ORGANISM: Artificial Sequence

```

```

: FEATURE:

```

```

: OTHER INFORMATION: Description of Artificial Sequence: synthetic

```

```

: OTHER INFORMATION: DNA Treatment

```

```

US-08/505,250 51

```

```

Query Match          65.0%; Score 14; DB 4; Length 42;
Best Local Similarity 100.0%; Pred. No. 1,40004;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

```

```

QY 1 GAGAGAGCTTCTT 14
    11111111111111
DB 21 GAGAGAGCTTCTT 44

```

```

RESULT 23
US-08/505,250 51
: Sequence 51; Application US/08505250
: Patent No. 6,422,996
: GENERAL INFORMATION:

```

```

: APPLICANT: Sato, Baruya
: APPLICANT: Yamamoto, Keiji
: APPLICANT: Suzuki, Kokiichi
: APPLICANT: Ikeda, Masahiro
: APPLICANT: Sakadami, Masahiro
: APPLICANT: Taniguchi, Makoto

```

```

: TITLE OF INVENTION: PROTEIN MODIFICATION METHOD

```

```

: FILE REFERENCE: 110-511

```



```

: CURRENT APPLICATION NUMBER: US/09/505,250
: CURRENT FILING DATE: 1995-11-29
: PRIOR APPLICATION NUMBER: PCT/JP95/00298
: PRIOR FILING DATE: 1995-02-27
: PRIOR APPLICATION NUMBER: JP 198187/94
: PRIOR FILING DATE: 1994-08-24
: NUMBER OF SEQ ID NOS: 54
: SOFTWARE: Patent In Ver. 2.0
: SEQ ID NO 51
: LENGTH: 42
: TYPE: DNA
: ORGANISM: Artificial Sequence
: FEATURE:
: OTHER INFORMATION: Description of Artificial Sequence: synthetic
: OTHER INFORMATION: DNA treatment
US-09-505-250-51

```

```

Query Match: 65.0%; Score 14; DB 4; Length 42;
Best Local Similarity 100.0%; Pred. No. 1.6e-04;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

```

```

QY 1 GAGACAGTCTTC 14
      |||
DB 21 GAGACAGTCTTC 43

```

```

RESULT 24
US-09-186-170-18
: Sequence 18; Application US/09/186,170
: Patent No. 6,448,558
: GENERAL INFORMATION:
: APPLICANT: Lin, Yao-Zhong
: APPLICANT: Donahue, John P.
: APPLICANT: Rojas, Mauricio
: APPLICANT: Tan, Zhong-Jia
: TITLE OF INVENTION: "Sequence and Method for Genetic Engineering of
: Patent No. 6,248,558
: FILE OF INVENTION: Proteins with Cell Membrane Translocating Activity"
: FILE REFERENCE: V19841
: CURRENT APPLICATION NUMBER: US/09/186,170
: CURRENT FILING DATE: 1998-11-04
: EARLIER APPLICATION NUMBER: 60/080,083
: EARLIER FILING DATE: 1998-04-31
: NUMBER OF SEQ ID NOS: 18
: SOFTWARE: Patent In Ver. 2.0
: SEQ ID NO 18
: LENGTH: 43
: TYPE: DNA
: ORGANISM: Artificial Sequence
: FEATURE:
: OTHER INFORMATION: Description of Artificial Sequence: Nucleotide
: OTHER INFORMATION: sequence encoding peptide which transports
: OTHER INFORMATION: proteins through the cell membrane into the cell
: PUBLICATION INFORMATION:
: TITLE: "Genetic Engineering of Proteins with Cell Membrane
: TITLE: "Permeability"
: JOURNAL: Nature Biotechnology
: VOLUME: 16
: ISSUE: April
: PAGES: 370-375
: DATE: 1998-04-01
: RELEVANT RESIDUES: 1 TO 12
US-09-186-170-18

```

```

Query Match: 64.0%; Score 12.8; DB 4; Length 43;
Best Local Similarity 87.5%; Pred. No. 1.6e-04;
Matches 14; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

```

```

QY 4 GAGATCTCTCTGGG 19
      |||
DB 1 GAGATCTCTCTGGG 16

```

```

RESULT 25
US-09-562-868-18
: Sequence 18; Application US/09/562,868
: Patent No. 6,432,680
: GENERAL INFORMATION:
: APPLICANT: Lin, Yao-Zhong
: APPLICANT: Donahue, John P.
: APPLICANT: Rojas, Mauricio
: APPLICANT: Tan, Zhong-Jia
: TITLE OF INVENTION: "Sequence and Method for Genetic Engineering of
: Patent No. 6,432,680
: TITLE OF INVENTION: Proteins with Cell Membrane Translocating Activity"
: FILE REFERENCE: 22000.009702
: CURRENT APPLICATION NUMBER: US/09/562,868
: CURRENT FILING DATE: 2000-05-01
: PRIOR APPLICATION NUMBER: 60/080,083
: PRIOR FILING DATE: 1998-04-31
: PRIOR APPLICATION NUMBER: 09/186,170
: PRIOR FILING DATE: 1998-11-04
: NUMBER OF SEQ ID NOS: 18
: SOFTWARE: Patent In Ver. 2.0
: SEQ ID NO 18
: LENGTH: 43
: TYPE: DNA
: ORGANISM: Artificial Sequence
: FEATURE:
: OTHER INFORMATION: Description of Artificial Sequence: Nucleotide
: OTHER INFORMATION: sequence encoding peptide which transports
: OTHER INFORMATION: proteins through the cell membrane into the cell
: PUBLICATION INFORMATION:
: AUTHORS: Rojas, M. et al.
: TITLE: "Genetic Engineering of Proteins with Cell Membrane
: TITLE: "Permeability"
: JOURNAL: Nature Biotechnology
: VOLUME: 16
: ISSUE: April
: PAGES: 370-375
: DATE: 1998-04-01
: US-09-562-868-18

```

```

Query Match: 64.0%; Score 12.8; DB 4; Length 43;
Best Local Similarity 87.5%; Pred. No. 1.6e-04;
Matches 14; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

```

```

QY 4 GAGATCTCTCTGGG 19
      |||
DB 1 GAGATCTCTCTGGG 16

```

```

Search completed: March 14, 2003, 12:09:09
Job time : 32.1967 secs

```





















1 TITLE OF INVENTION: "Sequence and Method for Genetic Engineering of  
2 FILE OF INVENTION: Proteins with Cell Membrane Translocating Activity"  
3 FILE REFERENCE: 22000.009704  
4 CURRENT APPLICATION NUMBER: US/10/116,288  
5 CURRENT FILING DATE: 2002-04-04  
6 PRIOR APPLICATION NUMBER: 09/562,868  
7 PRIOR FILING DATE: 2000-05-01  
8 PRIOR APPLICATION NUMBER: 09/186,170  
9 PRIOR FILING DATE: 1998-11-04  
10 PRIOR APPLICATION NUMBER: 60/080,083  
11 PRIOR FILING DATE: 1998-04-31  
12 NUMBER OF SEQ ID NOS: 18  
13 SOFTWARE: Patent In Ver. 2.0  
14 SEQ ID No 14  
15 LENGTH: 36  
16 TYPE: DNA  
17 ORGANISM: Artificial Sequence  
18 FEATURES:  
19 OTHER INFORMATION: Description of Artificial Sequence: Nucleotide  
20 OTHER INFORMATION: sequence encoding peptide which transports  
21 OTHER INFORMATION: proteins through the cell membrane into the cell  
22 PUBLICATION INFORMATION:  
23 AUTHORS: Rojas, M. et al.  
24 TITLE: "Genetic Engineering of Proteins with Cell Membrane  
25 TITLE: Permeability"  
26 JOURNAL: Nature Biotechnology  
27 VOLUME: 16  
28 ISSUE: April  
29 PAGES: 470-475  
30 DATE: 1998-04-01  
31 US-10-116-288-14

Query Match 79.0% Score 15.8; Db 12; Length 30;  
Best Local Similarity 89.5% Pred. No. 1.4e+02;  
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1 GGAGGAGTCTCTCTGGTG 19  
Db 1 GGAGGAGTCTCTCTGGTG 19

RESULT 4  
US-10-116-288-14  
1 Sequence 14, Application US/10/116288  
2 Patent No. US20020143142A1  
3 GENERAL INFORMATION:  
4 APPLICANT: Lin, Yao-Zhong  
5 APPLICANT: Donahue, John P.  
6 APPLICANT: Rojas, Manriello  
7 APPLICANT: Tan, Zhongjia  
8 TITLE OF INVENTION: "Sequence and Method for Genetic Engineering of  
9 FILE REFERENCE: 22000.009704  
10 CURRENT APPLICATION NUMBER: US/10/116,288  
11 CURRENT FILING DATE: 2002-04-04  
12 PRIOR APPLICATION NUMBER: 09/562,868  
13 PRIOR FILING DATE: 2000-05-01  
14 PRIOR APPLICATION NUMBER: 09/186,170  
15 PRIOR FILING DATE: 1998-11-04  
16 PRIOR APPLICATION NUMBER: 60/080,083  
17 PRIOR FILING DATE: 1998-04-31  
18 NUMBER OF SEQ ID NOS: 18  
19 SOFTWARE: Patent In Ver. 2.0  
20 SEQ ID No 14  
21 LENGTH: 33  
22 TYPE: DNA  
23 ORGANISM: Artificial Sequence  
24 FEATURES:  
25 OTHER INFORMATION: Description of Artificial Sequence: Nucleotide  
26 OTHER INFORMATION: sequence encoding peptide which transports  
27 OTHER INFORMATION: proteins through the cell membrane into the cell  
28 PUBLICATION INFORMATION:  
29 AUTHORS: Rojas, M. et al.

1 TITLE: "Genetic Engineering of Proteins with Cell Membrane  
2 TITLE: Permeability"  
3 JOURNAL: Nature Biotechnology  
4 VOLUME: 16  
5 ISSUE: April  
6 PAGES: 470-475  
7 DATE: 1998-04-01  
8 US-10-116-288-14

Query Match 79.0% Score 15.8; Db 12; Length 33;  
Best Local Similarity 89.5% Pred. No. 1.4e+02;  
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1 GGAGGAGTCTCTCTGGTG 19  
Db 1 GGAGGAGTCTCTCTGGTG 19

RESULT 5  
US-10-116-288-10  
1 Sequence 10, Application US/10/116288  
2 Patent No. US20020143142A1  
3 GENERAL INFORMATION:  
4 APPLICANT: Lin, Yao-Zhong  
5 APPLICANT: Donahue, John P.  
6 APPLICANT: Rojas, Manriello  
7 APPLICANT: Tan, Zhongjia  
8 TITLE OF INVENTION: "Sequence and Method for Genetic Engineering of  
9 FILE REFERENCE: 22000.009704  
10 CURRENT APPLICATION NUMBER: US/10/116,288  
11 CURRENT FILING DATE: 2002-04-04  
12 PRIOR APPLICATION NUMBER: 09/562,868  
13 PRIOR FILING DATE: 2000-05-01  
14 PRIOR APPLICATION NUMBER: 09/186,170  
15 PRIOR FILING DATE: 1998-11-04  
16 PRIOR APPLICATION NUMBER: 60/080,083  
17 PRIOR FILING DATE: 1998-04-31  
18 NUMBER OF SEQ ID NOS: 18  
19 SOFTWARE: Patent In Ver. 2.0  
20 SEQ ID No 10  
21 LENGTH: 35  
22 TYPE: DNA  
23 ORGANISM: Artificial Sequence  
24 FEATURES:  
25 OTHER INFORMATION: Description of Artificial Sequence: Nucleotide  
26 OTHER INFORMATION: sequence encoding peptide which transports  
27 OTHER INFORMATION: proteins through the cell membrane into the cell  
28 PUBLICATION INFORMATION:  
29 AUTHORS: Rojas, M. et al.

1 TITLE: "Genetic Engineering of Proteins with Cell Membrane  
2 TITLE: Permeability"  
3 JOURNAL: Nature Biotechnology  
4 VOLUME: 16  
5 ISSUE: April  
6 PAGES: 470-475  
7 DATE: 1998-04-01  
8 US-10-116-288-10

Query Match 79.0% Score 15.8; Db 12; Length 46;  
Best Local Similarity 89.5% Pred. No. 1.4e+02;  
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1 GGAGGAGTCTCTCTGGTG 19  
Db 1 GGAGGAGTCTCTCTGGTG 19

RESULT 6  
US-09-900-527-5  
1 Sequence 5, Application US/09/000527  
2 Patent No. US200151066A1  
3 GENERAL INFORMATION:

```

? APPLICANT: Rubenstein, John L.
? APPLICANT: Mione, Marina
? APPLICANT: Anderson, Stewart
? APPLICANT: Stuchmer, Thorsten
? APPLICANT: Yum, Kyoun
? TITLE OF INVENTION: Production of Gabaretic Cells
? FILE REFERENCE: BSEF184
? CURRENT APPLICATION NUMBER: US/09/900,527
? CURRENT FILING DATE: 2001-07-05
? PRIOR APPLICATION NUMBER: US 60/218,221
? PRIOR FILING DATE: 2001-07-14
? NUMBER OF SEQ ID NOS: 8
? SOFTWARE: FastSeq for Windows Version 4.0
? SEQ ID NO 5
? LENGTH: 23
? TYPE: DNA
? ORGANISM: Artificial Sequence
? FEATURE:
? OTHER INFORMATION: mouse primer corresponding to part of mouse Dlx2
US 09 900 527 5

```

```

Query Match 69.0% Score 14.8; DB 10; Length 24;
Best Local Similarity 88.2% Pred. No. 1,2e+03;
Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

```

```

QY 1 GAGGAGTCTTCTCCG 17
1111111111111111
DB 2 GAGGAGTCTTCTCCG 18

```

```

RESULT 7
US 09 804 717A 26/c
? Sequence 26, Application US/09804 717A
? Patent No. US20020164311A1
? GENERAL INFORMATION:
? APPLICANT: Strom, Terry B.
? TITLE OF INVENTION: METHODS AND COMPOUNDS FOR PREVENTION OF GRAFT REJECTION
? FILE REFERENCE: 01948-051004
? CURRENT APPLICATION NUMBER: US/09/804,717A
? CURRENT FILING DATE: 2002-04-25
? PRIOR APPLICATION NUMBER: US 09/404,765
? PRIOR FILING DATE: 1999-05-04
? PRIOR APPLICATION NUMBER: US 08/274,402
? PRIOR FILING DATE: 1994-07-11
? PRIOR APPLICATION NUMBER: US 08/024,669
? PRIOR FILING DATE: 1993-03-01
? PRIOR APPLICATION NUMBER: US 07/843,741
? PRIOR FILING DATE: 1992-02-28
? NUMBER OF SEQ ID NOS: 46
? SOFTWARE: FastSeq for Windows Version 4.0
? SEQ ID NO 26
? LENGTH: 20
? TYPE: DNA
? ORGANISM: Homo sapiens
US 09 804 717A 26

```

```

Query Match 64.0% Score 12.8; DB 9; Length 20;
Best Local Similarity 87.5% Pred. No. 3,4e+04;
Matches 14; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

```

```

QY 1 GAGGAGTCTTCTCC 16
1111111111111111
DB 20 GAGGAGTCTTCTCC 5

```

```

RESULT 8
US 10 116 288 18
? Sequence 18, Application US/10116288
? Patent No. US20020143142A1
? GENERAL INFORMATION:
? APPLICANT: Lin, Yao Zhong
? APPLICANT: Bondarev, John P.

```

```

? APPLICANT: Rojas, Mauricio
? APPLICANT: Lin, Zhonglin
? TITLE OF INVENTION: "Sequence and Method for Genetic Engineering of
? TITLE OF INVENTION: Proteins with Cell Membrane Translocating Activity"
? FILE REFERENCE: Z2000.009703
? CURRENT APPLICATION NUMBER: US/10/116,288
? CURRENT FILING DATE: 2002-04-04
? PRIOR APPLICATION NUMBER: 09/956,868
? PRIOR FILING DATE: 2000-09-01
? PRIOR APPLICATION NUMBER: 09/186,170
? PRIOR FILING DATE: 1998-11-04
? PRIOR APPLICATION NUMBER: 60/080,083
? PRIOR FILING DATE: 1998-03-31
? NUMBER OF SEQ ID NOS: 19
? SOFTWARE: Patent In Vot. 2.0
? SEQ ID NO 18
? LENGTH: 43
? TYPE: DNA
? ORGANISM: Artificial Sequence
? FEATURE:
? OTHER INFORMATION: Description of Artificial Sequence: Nucleotide
? OTHER INFORMATION: sequence encoding peptide which transperts
? OTHER INFORMATION: proteins through the cell membrane into the cell
? PUBLICATION INFORMATION:
? AUTHORS: Rojas, M. et al.
? TITLE: "Genetic Engineering of Proteins with Cell Membrane
? JOURNAL: Nature Biotechnology
? VOLUME: 16
? ISSUE: April
? PAGES: 470-476
? DATE: 1998-04-01
US 10 116 288 18

```

```

Query Match 64.0% Score 12.8; DB 12; Length 43;
Best Local Similarity 87.5% Pred. No. 3,5e+03;
Matches 14; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

```

```

QY 4 GAGTCTTCTCTCCG 19
1111111111111111
DB 1 GAGTCTTCTCTCCG 16

```

```

RESULT 9
US 09 742 201 6/c
? Sequence 6, Application US/09742201
? Patent No. US20020124091A1
? GENERAL INFORMATION:
? APPLICANT: Gurney, Austin L.
? APPLICANT: Kirchhofer, Daniel K.
? APPLICANT: Wood, William L.
? TITLE OF INVENTION: No. US20020124091A1, Inhibitor of Hepatocyte Growth Factor Ac
? TITLE OF INVENTION: for Use in Modulation of Angiogenesis and Cardiovascular
? FILE REFERENCE: 09048103
? CURRENT APPLICATION NUMBER: US/09/742,201
? CURRENT FILING DATE: 2000-12-19
? PRIOR APPLICATION NUMBER: PCT/US00/03565
? PRIOR FILING DATE: 2000-02-11
? PRIOR APPLICATION NUMBER: PCT/US00/06884
? PRIOR FILING DATE: 2000-04-15
? PRIOR APPLICATION NUMBER: US 60/255,665
? PRIOR FILING DATE: 2000-11-28
? NUMBER OF SEQ ID NOS: 6
? SEQ ID NO 6
? LENGTH: 45
? TYPE: DNA
? ORGANISM: Artificial Sequence
? FEATURE:
? OTHER INFORMATION: hybridization probe
US 09 742 201 6

```

```

Query Match 64.0% Score 12.8; DB 10; Length 45;
Best Local Similarity 87.5% Pred. No. 3,6e+03;

```

Matches 14: Conservative 0: Mismatches 2: Indels 0: Gaps 0:

QY 5 CAGAGTCTCTCGGCG 20

Db 4 CAGAGTCTCTCGGCG 40

# RESULT 10

US-10-114-894-241/c  
 : Sequence 241, Application US/10114894  
 : Publication No. US2002019567A1  
 : GENERAL INFORMATION:  
 : APPLICANT: Jacobs, Kenneth  
 : APPLICANT: McCoy, John M.  
 : APPLICANT: LaValle, Edward R.  
 : APPLICANT: Collins-Kacie, Lisa A.  
 : APPLICANT: Evans, Cheryl  
 : APPLICANT: Merbert, David  
 : APPLICANT: Treacy, Maurice  
 : APPLICANT: Bowman, Michael R.  
 : APPLICANT: Spaulding, Vikki  
 : APPLICANT: Carlin-Duckett, McKeough  
 : APPLICANT: Kelleher, Kerry S.  
 : APPLICANT: Genetics Institute, Inc.  
 : TITLE OF INVENTION: SECRETED PROTEINS AND POLYPEPTIDES ENCODING THEM  
 : FILE REFERENCE: GI 6000-10A  
 : CURRENT APPLICATION NUMBER: US/10/114,894  
 : CURRENT FILING DATE: 2002-04-02  
 : EARLIER APPLICATION NUMBER: 09/414,242  
 : EARLIER FILING DATE: 1999-10-06  
 : NUMBER OF SEQ ID NOS: 421  
 : SOFTWARE: PatentIn Ver. 2.0  
 : SEQ ID NO 241  
 : LENGTH: 28  
 : TYPE: DNA  
 : ORGANISM: Artificial Sequence  
 : FEATURE:  
 : OTHER INFORMATION: oligonucleotide  
 US-10-114-894-241

Query Match 63.0% Score 12.6; LB 9; Length 28;

Best Local Similarity 78.9% Pred. No. 4.4e+03;

Matches 15: Conservative 0: Mismatches 4: Indels 0: Gaps 0:

QY 1 CAGAGTCTCTCGGCG 19

Db 21 CAGAGTCTCTCGGCG 4

# RESULT 11

US-09-978-295A-50/c  
 : Sequence 50, Application US/09978295A  
 : Patent No. US20020156006A1  
 : GENERAL INFORMATION:  
 : APPLICANT: Ashkenazi, Avi  
 : APPLICANT: Baker Kevin P.  
 : APPLICANT: Beststein, David  
 : APPLICANT: Desnoyers, Luc  
 : APPLICANT: Eaton, Dan  
 : APPLICANT: Ferrara, Napoleon  
 : APPLICANT: Filvaroff, Ellen  
 : APPLICANT: Fond, Sherman  
 : APPLICANT: Gao, Wei-guang  
 : APPLICANT: Gerber, Hanspeter  
 : APPLICANT: Gottlieb, Mary E.  
 : APPLICANT: Goddard, Andrew  
 : APPLICANT: Godowski, Paul J.  
 : APPLICANT: Grimaldi, J. Christopher  
 : APPLICANT: Gurney, Austin L.  
 : APPLICANT: Hillan, Kenneth J.  
 : APPLICANT: Kijavits, Ivar J.  
 : APPLICANT: Kuo, Sophia S.  
 : APPLICANT: Napier, Mary A.

APPLICANT: Pan, James;  
 APPLICANT: Pao, Nicholas F.  
 APPLICANT: Roy, Margaret Ann  
 APPLICANT: Shelton, David L.  
 APPLICANT: Stewart, Timothy A.  
 APPLICANT: Tomas, Daniel  
 APPLICANT: Wood, William L.  
 APPLICANT: Wood, William L.  
 TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic  
 : FILE REFERENCE: P26,001C11  
 : CURRENT APPLICATION NUMBER: US/09/978,295A  
 : CURRENT FILING DATE: 2001-10-15  
 : PRIOR APPLICATION NUMBER: 09/918585  
 : PRIOR FILING DATE: 2001-07-30  
 : PRIOR APPLICATION NUMBER: 60/062250  
 : PRIOR FILING DATE: 1997-10-17  
 : PRIOR APPLICATION NUMBER: 60/064249  
 : PRIOR FILING DATE: 1997-11-03  
 : PRIOR APPLICATION NUMBER: 60/065411  
 : PRIOR FILING DATE: 1997-11-13  
 : PRIOR APPLICATION NUMBER: 60/066464  
 : PRIOR FILING DATE: 1997-11-21  
 : PRIOR APPLICATION NUMBER: 60/077450  
 : PRIOR FILING DATE: 1998-03-10  
 : PRIOR APPLICATION NUMBER: 60/077642  
 : PRIOR FILING DATE: 1998-03-11  
 : PRIOR APPLICATION NUMBER: 60/077641  
 : PRIOR FILING DATE: 1998-03-11  
 : PRIOR APPLICATION NUMBER: 60/077649  
 : PRIOR FILING DATE: 1998-03-11  
 : PRIOR APPLICATION NUMBER: 60/077791  
 : PRIOR FILING DATE: 1998-03-12  
 : PRIOR APPLICATION NUMBER: 60/078004  
 : PRIOR FILING DATE: 1998-03-13  
 : PRIOR APPLICATION NUMBER: 60/078886  
 : PRIOR FILING DATE: 1998-03-20  
 : PRIOR APPLICATION NUMBER: 60/078936  
 : PRIOR FILING DATE: 1998-03-20  
 : PRIOR APPLICATION NUMBER: 60/078940  
 : PRIOR FILING DATE: 1998-03-20  
 : PRIOR APPLICATION NUMBER: 60/078939  
 : PRIOR FILING DATE: 1998-03-20  
 : PRIOR APPLICATION NUMBER: 60/079294  
 : PRIOR FILING DATE: 1998-03-25  
 : PRIOR APPLICATION NUMBER: 60/079656  
 : PRIOR FILING DATE: 1998-03-26  
 : PRIOR APPLICATION NUMBER: 60/079664  
 : PRIOR FILING DATE: 1998-03-27  
 : PRIOR APPLICATION NUMBER: 60/079689  
 : PRIOR FILING DATE: 1998-03-27  
 : PRIOR APPLICATION NUMBER: 60/079663  
 : PRIOR FILING DATE: 1998-03-27  
 : PRIOR APPLICATION NUMBER: 60/079728  
 : PRIOR FILING DATE: 1998-03-27  
 : PRIOR APPLICATION NUMBER: 60/079786  
 : PRIOR FILING DATE: 1998-03-27  
 : PRIOR APPLICATION NUMBER: 60/079920  
 : PRIOR FILING DATE: 1998-03-30  
 : PRIOR APPLICATION NUMBER: 60/079923  
 : PRIOR FILING DATE: 1998-03-30  
 : PRIOR APPLICATION NUMBER: 60/080105  
 : PRIOR FILING DATE: 1998-03-31  
 : PRIOR APPLICATION NUMBER: 60/080107  
 : PRIOR FILING DATE: 1998-03-31  
 : PRIOR APPLICATION NUMBER: 60/080165  
 : PRIOR FILING DATE: 1998-03-31  
 : PRIOR APPLICATION NUMBER: 60/080194  
 : PRIOR FILING DATE: 1998-03-31  
 : PRIOR APPLICATION NUMBER: 60/080427  
 : PRIOR FILING DATE: 1999-04-01  
 : PRIOR APPLICATION NUMBER: 60/080428  
 : PRIOR FILING DATE: 1999-04-01



APPLICANT: Wood, William I.  
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic  
FILE REFERENCE: P26301C27  
CURRENT APPLICATION NUMBER: US/09/978,697  
PRIOR FILING DATE: 2001-10-16  
PRIOR APPLICATION NUMBER: 09/918585  
PRIOR FILING DATE: 2001-07-30  
PRIOR APPLICATION NUMBER: 60/062259  
PRIOR FILING DATE: 1997-10-17  
PRIOR APPLICATION NUMBER: 60/064249  
PRIOR FILING DATE: 1997-11-03  
PRIOR APPLICATION NUMBER: 60/065311  
PRIOR FILING DATE: 1997-11-13  
PRIOR APPLICATION NUMBER: 60/066364  
PRIOR FILING DATE: 1997-11-21  
PRIOR APPLICATION NUMBER: 60/077450  
PRIOR FILING DATE: 1998-03-10  
PRIOR APPLICATION NUMBER: 60/077642  
PRIOR FILING DATE: 1998-03-11  
PRIOR APPLICATION NUMBER: 60/077641  
PRIOR FILING DATE: 1998-03-11  
PRIOR APPLICATION NUMBER: 60/077649  
PRIOR FILING DATE: 1998-03-11  
PRIOR APPLICATION NUMBER: 60/077791  
PRIOR FILING DATE: 1998-03-12  
PRIOR APPLICATION NUMBER: 60/078004  
PRIOR FILING DATE: 1998-03-13  
PRIOR APPLICATION NUMBER: 60/078886  
PRIOR FILING DATE: 1998-03-20  
PRIOR APPLICATION NUMBER: 60/078936  
PRIOR FILING DATE: 1998-03-20  
PRIOR APPLICATION NUMBER: 60/078910  
PRIOR FILING DATE: 1998-03-20  
PRIOR APPLICATION NUMBER: 60/078939  
PRIOR FILING DATE: 1998-03-20  
PRIOR APPLICATION NUMBER: 60/079294  
PRIOR FILING DATE: 1998-03-25  
PRIOR APPLICATION NUMBER: 60/079656  
PRIOR FILING DATE: 1998-03-26  
PRIOR APPLICATION NUMBER: 60/079664  
PRIOR FILING DATE: 1998-03-27  
PRIOR APPLICATION NUMBER: 60/079689  
PRIOR FILING DATE: 1998-03-27  
PRIOR APPLICATION NUMBER: 60/079663  
PRIOR FILING DATE: 1998-03-27  
PRIOR APPLICATION NUMBER: 60/079728  
PRIOR FILING DATE: 1998-03-27  
PRIOR APPLICATION NUMBER: 60/079786  
PRIOR FILING DATE: 1998-03-27  
PRIOR APPLICATION NUMBER: 60/079920  
PRIOR FILING DATE: 1998-03-30  
PRIOR APPLICATION NUMBER: 60/079923  
PRIOR FILING DATE: 1998-03-30  
PRIOR APPLICATION NUMBER: 60/080105  
PRIOR FILING DATE: 1998-03-31  
PRIOR APPLICATION NUMBER: 60/080107  
PRIOR FILING DATE: 1998-03-31  
PRIOR APPLICATION NUMBER: 60/080155  
PRIOR FILING DATE: 1998-03-31  
PRIOR APPLICATION NUMBER: 60/080194  
PRIOR FILING DATE: 1998-03-31  
PRIOR APPLICATION NUMBER: 60/080327  
PRIOR FILING DATE: 1998-04-01  
PRIOR APPLICATION NUMBER: 60/080428  
PRIOR FILING DATE: 1998-04-01  
PRIOR APPLICATION NUMBER: 60/080434  
PRIOR FILING DATE: 1998-04-01  
PRIOR APPLICATION NUMBER: 60/080434  
PRIOR FILING DATE: 1998-04-01  
PRIOR APPLICATION NUMBER: 60/081070  
PRIOR FILING DATE: 1998-04-08  
PRIOR APPLICATION NUMBER: 60/081049  
PRIOR FILING DATE: 1998-04-08  
PRIOR APPLICATION NUMBER: 60/081071  
PRIOR FILING DATE: 1998-04-08  
PRIOR APPLICATION NUMBER: 60/081195  
PRIOR FILING DATE: 1998-04-08  
PRIOR APPLICATION NUMBER: 60/081203  
PRIOR FILING DATE: 1998-04-09  
PRIOR APPLICATION NUMBER: 60/081229  
PRIOR FILING DATE: 1998-04-09  
PRIOR APPLICATION NUMBER: 60/081955  
PRIOR FILING DATE: 1998-04-15  
PRIOR APPLICATION NUMBER: 60/081817  
PRIOR FILING DATE: 1998-04-15  
PRIOR APPLICATION NUMBER: 60/081819  
PRIOR FILING DATE: 1998-04-15  
PRIOR APPLICATION NUMBER: 60/081952  
PRIOR FILING DATE: 1998-04-15  
PRIOR APPLICATION NUMBER: 60/081838  
PRIOR FILING DATE: 1998-04-15  
PRIOR APPLICATION NUMBER: 60/082568  
PRIOR FILING DATE: 1998-04-21  
PRIOR APPLICATION NUMBER: 60/082569  
PRIOR FILING DATE: 1998-04-21  
PRIOR APPLICATION NUMBER: 60/082704  
PRIOR FILING DATE: 1998-04-22  
PRIOR APPLICATION NUMBER: 60/082804  
PRIOR FILING DATE: 1998-04-22  
PRIOR APPLICATION NUMBER: 60/082700  
PRIOR FILING DATE: 1998-04-22  
PRIOR APPLICATION NUMBER: 60/082797  
PRIOR FILING DATE: 1998-04-22  
PRIOR APPLICATION NUMBER: 60/082796  
PRIOR FILING DATE: 1998-04-23  
PRIOR APPLICATION NUMBER: 60/083336  
PRIOR FILING DATE: 1998-04-27  
PRIOR APPLICATION NUMBER: 60/083322  
PRIOR FILING DATE: 1998-04-28  
PRIOR APPLICATION NUMBER: 60/083392  
PRIOR FILING DATE: 1998-04-29  
PRIOR APPLICATION NUMBER: 60/083495  
PRIOR FILING DATE: 1998-04-29  
PRIOR APPLICATION NUMBER: 60/083496  
PRIOR FILING DATE: 1998-04-29  
PRIOR APPLICATION NUMBER: 60/083499  
PRIOR FILING DATE: 1998-04-29  
PRIOR APPLICATION NUMBER: 60/083545  
PRIOR FILING DATE: 1998-04-29  
PRIOR APPLICATION NUMBER: 60/083554  
PRIOR FILING DATE: 1998-04-29  
PRIOR APPLICATION NUMBER: 60/083558  
PRIOR FILING DATE: 1998-04-29  
PRIOR APPLICATION NUMBER: 60/083559  
PRIOR FILING DATE: 1998-04-29  
PRIOR APPLICATION NUMBER: 60/083500  
PRIOR FILING DATE: 1998-04-29  
PRIOR APPLICATION NUMBER: 60/083742  
PRIOR FILING DATE: 1998-04-30  
PRIOR APPLICATION NUMBER: 60/084366  
PRIOR FILING DATE: 1998-05-05  
PRIOR APPLICATION NUMBER: 60/084414  
PRIOR FILING DATE: 1998-05-06  
PRIOR APPLICATION NUMBER: 60/084441  
PRIOR FILING DATE: 1998-05-06  
PRIOR APPLICATION NUMBER: 60/084637  
PRIOR FILING DATE: 1998-05-07  
PRIOR APPLICATION NUMBER: 60/084639  
PRIOR FILING DATE: 1998-05-07  
PRIOR APPLICATION NUMBER: 60/084640  
PRIOR FILING DATE: 1998-05-07  
PRIOR APPLICATION NUMBER: 60/084598  
PRIOR FILING DATE: 1998-05-07  
PRIOR APPLICATION NUMBER: 60/084600  
PRIOR FILING DATE: 1998-05-07

1 PRIOR APPLICATION NUMBER: 60/084627  
 2 PRIOR FILING DATE: 1998-05-07  
 3 PRIOR APPLICATION NUMBER: 60/084643  
 4 PRIOR FILING DATE: 1998-05-07  
 5 PRIOR APPLICATION NUMBER: 60/085449  
 6 PRIOR FILING DATE: 1998-05-13  
 7 PRIOR APPLICATION NUMBER: 60/085448  
 8 PRIOR FILING DATE: 1998-05-13  
 9 PRIOR APPLICATION NUMBER: 60/085423  
 10 PRIOR FILING DATE: 1998-05-13  
 11 PRIOR APPLICATION NUMBER: 60/085582  
 12 PRIOR FILING DATE: 1998-05-15  
 13 PRIOR APPLICATION NUMBER: 60/085700  
 14 PRIOR FILING DATE: 1998-05-15  
 15 PRIOR APPLICATION NUMBER: 60/085689  
 16 PRIOR FILING DATE: 1998-05-15  
 17 PRIOR APPLICATION NUMBER: 60/085579  
 18 PRIOR FILING DATE: 1998-05-15  
 19 PRIOR APPLICATION NUMBER: 60/085580  
 20 PRIOR FILING DATE: 1998-05-15  
 21 PRIOR APPLICATION NUMBER: 60/085673  
 22 PRIOR FILING DATE: 1998-05-15  
 23 PRIOR APPLICATION NUMBER: 60/085704  
 24 PRIOR FILING DATE: 1998-05-15  
 25 PRIOR APPLICATION NUMBER: 60/085697

Query Match: 63.0%; Score: 12.6; DB: 9; Length: 45;

Best Local Similarity: 78.9%; Pred. No.: 4.5e+03;

Matches: 15; Conservative: 0; Mismatches: 4; Indels: 0; Gaps: 0;

QY 1 GAGAGCTTCTCTCATG 19

DB 45 GAGAGCTTCTCTCATG 17

# RESULT 14

US-09-978 192A 50/c

Sequence 50, Application US/09978192A

Patent No. US2002017755A1

GENERAL INFORMATION:

1 APPLICANT: Ashkenazi, Avi  
 2 APPLICANT: Baker Kevin P.  
 3 APPLICANT: Batstein, David  
 4 APPLICANT: Besnoyers, Luc  
 5 APPLICANT: Eaton, Dan  
 6 APPLICANT: Ferrara, Napoleon  
 7 APPLICANT: Filvaroli, Ellen  
 8 APPLICANT: Ford, Sherman  
 9 APPLICANT: Gao, Wei-Grand  
 10 APPLICANT: Gerber, Hanspeter  
 11 APPLICANT: Gerttison, Mary E.  
 12 APPLICANT: Goddard, Audrey  
 13 APPLICANT: Godowski, Paul J.  
 14 APPLICANT: Grimaldi, J. Christopher  
 15 APPLICANT: Gurney, Austin L.  
 16 APPLICANT: Hillan, Kenneth J.  
 17 APPLICANT: Kujavins, Ivar J.  
 18 APPLICANT: Kuo, Sophia S.  
 19 APPLICANT: Napier, Mary A.  
 20 APPLICANT: Pan, James  
 21 APPLICANT: Paoni, Nicholas P.  
 22 APPLICANT: Roy, Margaret Ann  
 23 APPLICANT: Shelton, David L.  
 24 APPLICANT: Stewart, Timothy A.  
 25 APPLICANT: Thomas, Daniel  
 26 APPLICANT: Williams, P. Mickey  
 27 APPLICANT: Wood, William L.  
 28 TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleotide  
 29 FILE REFERENCE: P26-00109  
 30 CURRENT APPLICATION NUMBER: US/09978192A  
 31 CURRENT FILING DATE: 2001-10-15  
 32 PRIOR APPLICATION NUMBER: 09/916585

1 PRIOR FILING DATE: 2001-07-30  
 2 PRIOR APPLICATION NUMBER: 60/062250  
 3 PRIOR FILING DATE: 1997-10-17  
 4 PRIOR APPLICATION NUMBER: 60/064249  
 5 PRIOR FILING DATE: 1997-11-03  
 6 PRIOR APPLICATION NUMBER: 60/065411  
 7 PRIOR FILING DATE: 1997-11-13  
 8 PRIOR APPLICATION NUMBER: 60/066464  
 9 PRIOR FILING DATE: 1997-11-21  
 10 PRIOR APPLICATION NUMBER: 60/077450  
 11 PRIOR FILING DATE: 1998-03-10  
 12 PRIOR APPLICATION NUMBER: 60/077642  
 13 PRIOR FILING DATE: 1998-03-11  
 14 PRIOR APPLICATION NUMBER: 60/077641  
 15 PRIOR FILING DATE: 1998-03-11  
 16 PRIOR APPLICATION NUMBER: 60/077649  
 17 PRIOR FILING DATE: 1998-03-11  
 18 PRIOR APPLICATION NUMBER: 60/077791  
 19 PRIOR FILING DATE: 1998-03-12  
 20 PRIOR APPLICATION NUMBER: 60/078004  
 21 PRIOR FILING DATE: 1998-03-14  
 22 PRIOR APPLICATION NUMBER: 60/078886  
 23 PRIOR FILING DATE: 1998-03-20  
 24 PRIOR APPLICATION NUMBER: 60/078936  
 25 PRIOR FILING DATE: 1998-03-20  
 26 PRIOR APPLICATION NUMBER: 60/078910  
 27 PRIOR FILING DATE: 1998-03-20  
 28 PRIOR APPLICATION NUMBER: 60/078939  
 29 PRIOR FILING DATE: 1998-03-20  
 30 PRIOR APPLICATION NUMBER: 60/079294  
 31 PRIOR FILING DATE: 1998-03-25  
 32 PRIOR APPLICATION NUMBER: 60/079656  
 33 PRIOR FILING DATE: 1998-03-26  
 34 PRIOR APPLICATION NUMBER: 60/079664  
 35 PRIOR FILING DATE: 1998-03-27  
 36 PRIOR APPLICATION NUMBER: 60/079689  
 37 PRIOR FILING DATE: 1998-03-27  
 38 PRIOR APPLICATION NUMBER: 60/079663  
 39 PRIOR FILING DATE: 1998-03-27  
 40 PRIOR APPLICATION NUMBER: 60/079923  
 41 PRIOR FILING DATE: 1998-03-30  
 42 PRIOR APPLICATION NUMBER: 60/079923  
 43 PRIOR FILING DATE: 1998-03-30  
 44 PRIOR APPLICATION NUMBER: 60/080105  
 45 PRIOR FILING DATE: 1998-03-31  
 46 PRIOR APPLICATION NUMBER: 60/080107  
 47 PRIOR FILING DATE: 1998-03-31  
 48 PRIOR APPLICATION NUMBER: 60/080165  
 49 PRIOR FILING DATE: 1998-03-31  
 50 PRIOR APPLICATION NUMBER: 60/080194  
 51 PRIOR FILING DATE: 1998-03-31  
 52 PRIOR APPLICATION NUMBER: 60/080327  
 53 PRIOR FILING DATE: 1998-04-01  
 54 PRIOR APPLICATION NUMBER: 60/080328  
 55 PRIOR FILING DATE: 1998-04-01  
 56 PRIOR APPLICATION NUMBER: 60/080333  
 57 PRIOR FILING DATE: 1998-04-01  
 58 PRIOR APPLICATION NUMBER: 60/080334  
 59 PRIOR FILING DATE: 1998-04-01  
 60 PRIOR APPLICATION NUMBER: 60/081070  
 61 PRIOR FILING DATE: 1998-04-08  
 62 PRIOR APPLICATION NUMBER: 60/081049  
 63 PRIOR FILING DATE: 1998-04-08  
 64 PRIOR APPLICATION NUMBER: 60/081071  
 65 PRIOR FILING DATE: 1998-04-08  
 66 PRIOR APPLICATION NUMBER: 60/081195  
 67 PRIOR FILING DATE: 1998-04-08  
 68 PRIOR APPLICATION NUMBER: 60/081204  
 69 PRIOR FILING DATE: 1998-04-09



1 PRIOR APPLICATION NUMBER: 60/081229  
2 PRIOR FILING DATE: 1998-04-09  
3 PRIOR APPLICATION NUMBER: 60/081955  
4 PRIOR FILING DATE: 1998-04-15  
5 PRIOR APPLICATION NUMBER: 60/081817  
6 PRIOR FILING DATE: 1998-04-15  
7 PRIOR APPLICATION NUMBER: 60/081819  
8 PRIOR FILING DATE: 1998-04-15  
9 PRIOR APPLICATION NUMBER: 60/081952  
10 PRIOR FILING DATE: 1998-04-15  
11 PRIOR APPLICATION NUMBER: 60/081848  
12 PRIOR FILING DATE: 1998-04-15  
13 PRIOR APPLICATION NUMBER: 60/082568  
14 PRIOR FILING DATE: 1998-04-21  
15 PRIOR APPLICATION NUMBER: 60/082569  
16 PRIOR FILING DATE: 1998-04-21  
17 PRIOR APPLICATION NUMBER: 60/082704  
18 PRIOR FILING DATE: 1998-04-22  
19 PRIOR APPLICATION NUMBER: 60/082804  
20 PRIOR FILING DATE: 1998-04-22  
21 PRIOR APPLICATION NUMBER: 60/082700  
22 PRIOR FILING DATE: 1998-04-22  
23 PRIOR APPLICATION NUMBER: 60/082797  
24 PRIOR FILING DATE: 1998-04-22  
25 PRIOR APPLICATION NUMBER: 60/082796  
26 PRIOR FILING DATE: 1998-04-24  
27 PRIOR APPLICATION NUMBER: 60/084336  
28 PRIOR FILING DATE: 1998-04-27  
29 PRIOR APPLICATION NUMBER: 60/083322  
30 PRIOR FILING DATE: 1998-04-28  
31 PRIOR APPLICATION NUMBER: 60/084392  
32 PRIOR FILING DATE: 1998-04-29  
33 PRIOR APPLICATION NUMBER: 60/084395  
34 PRIOR FILING DATE: 1998-04-29  
35 PRIOR APPLICATION NUMBER: 60/083496  
36 PRIOR FILING DATE: 1998-04-29  
37 PRIOR APPLICATION NUMBER: 60/084499  
38 PRIOR FILING DATE: 1998-04-29  
39 PRIOR APPLICATION NUMBER: 60/084545  
40 PRIOR FILING DATE: 1998-04-29  
41 PRIOR APPLICATION NUMBER: 60/084554  
42 PRIOR FILING DATE: 1998-04-29  
43 PRIOR APPLICATION NUMBER: 60/084558  
44 PRIOR FILING DATE: 1998-04-29  
45 PRIOR APPLICATION NUMBER: 60/084559  
46 PRIOR FILING DATE: 1998-04-29  
47 PRIOR APPLICATION NUMBER: 60/084500  
48 PRIOR FILING DATE: 1998-04-29  
49 PRIOR APPLICATION NUMBER: 60/084742  
50 PRIOR FILING DATE: 1998-04-30  
51 PRIOR APPLICATION NUMBER: 60/084566  
52 PRIOR FILING DATE: 1998-05-05  
53 PRIOR APPLICATION NUMBER: 60/084414  
54 PRIOR FILING DATE: 1998-05-06  
55 PRIOR APPLICATION NUMBER: 60/084441  
56 PRIOR FILING DATE: 1998-05-06  
57 PRIOR APPLICATION NUMBER: 60/084637  
58 PRIOR FILING DATE: 1998-05-07  
59 PRIOR APPLICATION NUMBER: 60/084649  
60 PRIOR FILING DATE: 1998-05-07  
61 PRIOR APPLICATION NUMBER: 60/084598  
62 PRIOR FILING DATE: 1998-05-07  
63 PRIOR APPLICATION NUMBER: 60/084600  
64 PRIOR FILING DATE: 1998-05-07  
65 PRIOR APPLICATION NUMBER: 60/084627  
66 PRIOR FILING DATE: 1998-05-07  
67 PRIOR APPLICATION NUMBER: 60/084643  
68 PRIOR FILING DATE: 1998-05-07  
69 PRIOR APPLICATION NUMBER: 60/085349  
70 PRIOR FILING DATE: 1998-05-13  
71 PRIOR APPLICATION NUMBER: 60/085348

1 PRIOR FILING DATE: 1998-05-14  
2 PRIOR APPLICATION NUMBER: 60/085323  
3 PRIOR FILING DATE: 1998-05-14  
4 PRIOR APPLICATION NUMBER: 60/085582  
5 PRIOR FILING DATE: 1998-05-15  
6 PRIOR APPLICATION NUMBER: 60/085700  
7 PRIOR FILING DATE: 1998-05-15  
8 PRIOR APPLICATION NUMBER: 60/085689  
9 PRIOR FILING DATE: 1998-05-15  
10 PRIOR APPLICATION NUMBER: 60/085579  
11 PRIOR FILING DATE: 1998-05-15  
12 PRIOR APPLICATION NUMBER: 60/085580  
13 PRIOR FILING DATE: 1998-05-15  
14 PRIOR APPLICATION NUMBER: 60/085573  
15 PRIOR FILING DATE: 1998-05-15  
16 PRIOR APPLICATION NUMBER: 60/085704  
17 PRIOR FILING DATE: 1998-05-15  
18 PRIOR APPLICATION NUMBER: 60/085697

Query Match 63.0% Score 12.6; DB 9; Length 45;  
Best Local Similarity 78.9%; Prod. No. 4 50-04;  
Matches 15; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

QY 1 GAGAGAGTCTCTCTGCG 19  
111111111111111111  
1b 35 GAGAGAGTCTCTCTGCG 17

## RESULT 14

US-09-999-832A-50/c  
1 Sequence 50, Application US/09999832A  
2 Publication No. US20020192706A1  
3 GENERAL INFORMATION:  
4 APPLICANT: Ashkenazi, Avi  
5 APPLICANT: Baker, Kevin P.  
6 APPLICANT: Botstein, David  
7 APPLICANT: Besenoyers, Luc  
8 APPLICANT: Eaton, Dan  
9 APPLICANT: Ferrara, Napoleone  
10 APPLICANT: Filvaroff, Ellen  
11 APPLICANT: Fong, Sherman  
12 APPLICANT: Gao, Wei-Guang  
13 APPLICANT: Gerber, Hanspeter  
14 APPLICANT: Griffithsen, Mary E.  
15 APPLICANT: Goddard, Andrew  
16 APPLICANT: Gadowski, Paul J.  
17 APPLICANT: Grimaldi, J. Christopher  
18 APPLICANT: Gurney, Austin L.  
19 APPLICANT: Hillan, Kenneth J.  
20 APPLICANT: Kljavin, Ivar J.  
21 APPLICANT: Kuo, Sophia S.  
22 APPLICANT: Napier, Mary A.  
23 APPLICANT: Pan, James  
24 APPLICANT: Patel, Nicholas F.  
25 APPLICANT: Roy, Margaret Ann  
26 APPLICANT: Shelton, David L.  
27 APPLICANT: Stewart, Timothy A.  
28 APPLICANT: Thomas, Daniel  
29 APPLICANT: Williams, P. Mickey  
30 APPLICANT: Wood, William L.  
31 TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic  
32 TITLE OF INVENTION: Acids Encoded the Same  
33 FILE REFERENCE: P268010664  
34 CURRENT APPLICATION NUMBER: US/09/999,832A  
35 CURRENT FILING DATE: 2001-10-24  
36 PRIOR APPLICATION NUMBER: 09/918585  
37 PRIOR FILING DATE: 2001-07-30  
38 PRIOR APPLICATION NUMBER: 60/062250  
39 PRIOR FILING DATE: 1997-10-17  
40 PRIOR APPLICATION NUMBER: 60/064249  
41 PRIOR FILING DATE: 1997-11-04  
42 PRIOR APPLICATION NUMBER: 60/065311  
43 PRIOR FILING DATE: 1997-11-13

2 PRIOR APPLICATION NUMBER: 60/066304  
3 PRIOR FILING DATE: 1997-11-21  
4 PRIOR APPLICATION NUMBER: 60/077450  
5 PRIOR FILING DATE: 1998-03-10  
6 PRIOR APPLICATION NUMBER: 60/077642  
7 PRIOR FILING DATE: 1998-03-11  
8 PRIOR APPLICATION NUMBER: 60/077641  
9 PRIOR FILING DATE: 1998-03-11  
10 PRIOR APPLICATION NUMBER: 60/077649  
11 PRIOR FILING DATE: 1998-03-11  
12 PRIOR APPLICATION NUMBER: 60/077791  
13 PRIOR FILING DATE: 1998-03-12  
14 PRIOR APPLICATION NUMBER: 60/078004  
15 PRIOR FILING DATE: 1998-03-13  
16 PRIOR APPLICATION NUMBER: 60/078886  
17 PRIOR FILING DATE: 1998-03-20  
18 PRIOR APPLICATION NUMBER: 60/078946  
19 PRIOR FILING DATE: 1998-03-20  
20 PRIOR APPLICATION NUMBER: 60/078910  
21 PRIOR FILING DATE: 1998-03-20  
22 PRIOR APPLICATION NUMBER: 60/078949  
23 PRIOR FILING DATE: 1998-03-20  
24 PRIOR APPLICATION NUMBER: 60/079294  
25 PRIOR FILING DATE: 1998-03-25  
26 PRIOR APPLICATION NUMBER: 60/079656  
27 PRIOR FILING DATE: 1998-03-26  
28 PRIOR APPLICATION NUMBER: 60/079664  
29 PRIOR FILING DATE: 1998-03-27  
30 PRIOR APPLICATION NUMBER: 60/079689  
31 PRIOR FILING DATE: 1998-03-27  
32 PRIOR APPLICATION NUMBER: 60/079786  
33 PRIOR FILING DATE: 1998-03-27  
34 PRIOR APPLICATION NUMBER: 60/079920  
35 PRIOR FILING DATE: 1998-03-30  
36 PRIOR APPLICATION NUMBER: 60/079923  
37 PRIOR FILING DATE: 1998-03-30  
38 PRIOR APPLICATION NUMBER: 60/080105  
39 PRIOR FILING DATE: 1998-03-31  
40 PRIOR APPLICATION NUMBER: 60/080107  
41 PRIOR FILING DATE: 1998-03-31  
42 PRIOR APPLICATION NUMBER: 60/080165  
43 PRIOR FILING DATE: 1998-03-31  
44 PRIOR APPLICATION NUMBER: 60/080194  
45 PRIOR FILING DATE: 1998-03-31  
46 PRIOR APPLICATION NUMBER: 60/080327  
47 PRIOR FILING DATE: 1998-04-01  
48 PRIOR APPLICATION NUMBER: 60/080328  
49 PRIOR FILING DATE: 1998-04-01  
50 PRIOR APPLICATION NUMBER: 60/080333  
51 PRIOR FILING DATE: 1998-04-01  
52 PRIOR APPLICATION NUMBER: 60/080334  
53 PRIOR FILING DATE: 1998-04-01  
54 PRIOR APPLICATION NUMBER: 60/081070  
55 PRIOR FILING DATE: 1998-04-08  
56 PRIOR APPLICATION NUMBER: 60/081049  
57 PRIOR FILING DATE: 1998-04-08  
58 PRIOR APPLICATION NUMBER: 60/081071  
59 PRIOR FILING DATE: 1998-04-08  
60 PRIOR APPLICATION NUMBER: 60/081195  
61 PRIOR FILING DATE: 1998-04-08  
62 PRIOR APPLICATION NUMBER: 60/081203  
63 PRIOR FILING DATE: 1998-04-09  
64 PRIOR APPLICATION NUMBER: 60/081229  
65 PRIOR FILING DATE: 1998-04-09  
66 PRIOR APPLICATION NUMBER: 60/081955  
67 PRIOR FILING DATE: 1998-04-15  
68 PRIOR APPLICATION NUMBER: 60/081817  
69 PRIOR FILING DATE: 1998-04-15  
70 PRIOR APPLICATION NUMBER: 60/081819  
71 PRIOR FILING DATE: 1998-04-15  
72 PRIOR APPLICATION NUMBER: 60/081352  
73 PRIOR FILING DATE: 1998-04-15  
74 PRIOR APPLICATION NUMBER: 60/081838  
75 PRIOR FILING DATE: 1998-04-15  
76 PRIOR APPLICATION NUMBER: 60/082568  
77 PRIOR FILING DATE: 1998-04-21  
78 PRIOR APPLICATION NUMBER: 60/082569  
79 PRIOR FILING DATE: 1998-04-21  
80 PRIOR APPLICATION NUMBER: 60/082704  
81 PRIOR FILING DATE: 1998-04-22  
82 PRIOR APPLICATION NUMBER: 60/082804  
83 PRIOR FILING DATE: 1998-04-22  
84 PRIOR APPLICATION NUMBER: 60/082700  
85 PRIOR FILING DATE: 1998-04-22  
86 PRIOR APPLICATION NUMBER: 60/082797  
87 PRIOR FILING DATE: 1998-04-22  
88 PRIOR APPLICATION NUMBER: 60/082796  
89 PRIOR FILING DATE: 1998-04-23  
90 PRIOR APPLICATION NUMBER: 60/083336  
91 PRIOR FILING DATE: 1998-04-27  
92 PRIOR APPLICATION NUMBER: 60/083322  
93 PRIOR FILING DATE: 1998-04-28  
94 PRIOR APPLICATION NUMBER: 60/083392  
95 PRIOR FILING DATE: 1998-04-29  
96 PRIOR APPLICATION NUMBER: 60/083395  
97 PRIOR FILING DATE: 1998-04-29  
98 PRIOR APPLICATION NUMBER: 60/083496  
99 PRIOR FILING DATE: 1998-04-29  
100 PRIOR APPLICATION NUMBER: 60/083499  
101 PRIOR FILING DATE: 1998-04-29  
102 PRIOR APPLICATION NUMBER: 60/083545  
103 PRIOR FILING DATE: 1998-04-29  
104 PRIOR APPLICATION NUMBER: 60/083554  
105 PRIOR FILING DATE: 1998-04-29  
106 PRIOR APPLICATION NUMBER: 60/083558  
107 PRIOR FILING DATE: 1998-04-29  
108 PRIOR APPLICATION NUMBER: 60/083559  
109 PRIOR FILING DATE: 1998-04-29  
110 PRIOR APPLICATION NUMBER: 60/083500  
111 PRIOR FILING DATE: 1998-04-29  
112 PRIOR APPLICATION NUMBER: 60/083742  
113 PRIOR FILING DATE: 1998-04-30  
114 PRIOR APPLICATION NUMBER: 60/084366  
115 PRIOR FILING DATE: 1998-05-05  
116 PRIOR APPLICATION NUMBER: 60/084414  
117 PRIOR FILING DATE: 1998-05-06  
118 PRIOR APPLICATION NUMBER: 60/084441  
119 PRIOR FILING DATE: 1998-05-06  
120 PRIOR APPLICATION NUMBER: 60/084637  
121 PRIOR FILING DATE: 1998-05-07  
122 PRIOR APPLICATION NUMBER: 60/084639  
123 PRIOR FILING DATE: 1998-05-07  
124 PRIOR APPLICATION NUMBER: 60/084640  
125 PRIOR FILING DATE: 1998-05-07  
126 PRIOR APPLICATION NUMBER: 60/084598  
127 PRIOR FILING DATE: 1998-05-07  
128 PRIOR APPLICATION NUMBER: 60/084600  
129 PRIOR FILING DATE: 1998-05-07  
130 PRIOR APPLICATION NUMBER: 60/084627  
131 PRIOR FILING DATE: 1998-05-07  
132 PRIOR APPLICATION NUMBER: 60/084643  
133 PRIOR FILING DATE: 1998-05-07  
134 PRIOR APPLICATION NUMBER: 60/085339  
135 PRIOR FILING DATE: 1998-05-13  
136 PRIOR APPLICATION NUMBER: 60/085338  
137 PRIOR FILING DATE: 1998-05-13  
138 PRIOR APPLICATION NUMBER: 60/085323  
139 PRIOR FILING DATE: 1998-05-13  
140 PRIOR APPLICATION NUMBER: 60/085382  
141 PRIOR FILING DATE: 1998-05-15  
142 PRIOR APPLICATION NUMBER: 60/085700  
143 PRIOR FILING DATE: 1998-05-15

? PRIOR APPLICATION NUMBER: 60/085689  
 ? PRIOR FILING DATE: 1998-05-15  
 ? PRIOR APPLICATION NUMBER: 60/085579  
 ? PRIOR FILING DATE: 1998-05-15  
 ? PRIOR APPLICATION NUMBER: 60/085560  
 ? PRIOR FILING DATE: 1998-05-15  
 ? PRIOR APPLICATION NUMBER: 60/085573  
 ? PRIOR FILING DATE: 1998-05-15  
 ? PRIOR APPLICATION NUMBER: 60/085704  
 ? PRIOR FILING DATE: 1998-05-15  
 ? PRIOR APPLICATION NUMBER: 60/085647

Query Match: 63.0%; Score 12.6; BB 9; Length 45;  
 Best Local Similarity: 78.9%; Pred. No. 4.5e+03;  
 Matches 15; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

QY 1 GAGAGATCTTCCTCCG 19  
 DB 45 GAGATCTTCCTCCG 17

## RESULT 15

US-09-978 189-50/C

Sequence 50, Application US/09978189

Publication No. US20030004102A1

## GENERAL INFORMATION:

? APPLICANT: Ashkenazi, Avi  
 ? APPLICANT: Baker, Kevin P.  
 ? APPLICANT: Botstein, David  
 ? APPLICANT: Desnuyers, Luc  
 ? APPLICANT: Eaton, Dan  
 ? APPLICANT: Ferrara, Napoleon  
 ? APPLICANT: Filvaroff, Ellen  
 ? APPLICANT: Fong, Sherman  
 ? APPLICANT: Gao, Wei-Qiang  
 ? APPLICANT: Gerber, Hanspeter  
 ? APPLICANT: Gerritsen, Mary E.  
 ? APPLICANT: Goddard, Audrey  
 ? APPLICANT: Godowski, Paul J.  
 ? APPLICANT: Gimalidi, J. Christopher  
 ? APPLICANT: Gurney, Austin L.  
 ? APPLICANT: Hillan, Kenneth J.  
 ? APPLICANT: Kijavlin, Ivar J.  
 ? APPLICANT: Kuo, Sophia S.  
 ? APPLICANT: Napier, Mary A.  
 ? APPLICANT: Pan, James  
 ? APPLICANT: Paoni, Nicholas F.  
 ? APPLICANT: Roy, Margaret Ann  
 ? APPLICANT: Shelton, David L.  
 ? APPLICANT: Stewart, Timothy A.  
 ? APPLICANT: Tumas, Daniel  
 ? APPLICANT: Williams, P. Mickey  
 ? APPLICANT: Wood, William I.  
 ? TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic  
 ? FILE REFERENCE: P2630P1C7  
 ? CURRENT APPLICATION NUMBER: US/09978189  
 ? CURRENT FILING DATE: 2001-10-15  
 ? PRIOR APPLICATION NUMBER: 09/918585  
 ? PRIOR FILING DATE: 2001-07-10  
 ? PRIOR APPLICATION NUMBER: 60/0942250  
 ? PRIOR FILING DATE: 1997-10-17  
 ? PRIOR APPLICATION NUMBER: 60/064249  
 ? PRIOR FILING DATE: 1997-11-04  
 ? PRIOR APPLICATION NUMBER: 60/065311  
 ? PRIOR FILING DATE: 1997-11-14  
 ? PRIOR APPLICATION NUMBER: 60/066364  
 ? PRIOR FILING DATE: 1997-11-21  
 ? PRIOR APPLICATION NUMBER: 60/077450  
 ? PRIOR FILING DATE: 1998-03-10  
 ? PRIOR APPLICATION NUMBER: 60/077642  
 ? PRIOR FILING DATE: 1998-03-11  
 ? PRIOR APPLICATION NUMBER: 60/077641

? PRIOR FILING DATE: 1998-04-11  
 ? PRIOR APPLICATION NUMBER: 60/077649  
 ? PRIOR FILING DATE: 1998-04-11  
 ? PRIOR APPLICATION NUMBER: 60/077791  
 ? PRIOR FILING DATE: 1998-04-12  
 ? PRIOR APPLICATION NUMBER: 60/078004  
 ? PRIOR FILING DATE: 1998-04-14  
 ? PRIOR APPLICATION NUMBER: 60/078886  
 ? PRIOR FILING DATE: 1998-04-20  
 ? PRIOR APPLICATION NUMBER: 60/078936  
 ? PRIOR FILING DATE: 1998-04-20  
 ? PRIOR APPLICATION NUMBER: 60/078910  
 ? PRIOR FILING DATE: 1998-04-20  
 ? PRIOR APPLICATION NUMBER: 60/078939  
 ? PRIOR FILING DATE: 1998-04-20  
 ? PRIOR APPLICATION NUMBER: 60/079294  
 ? PRIOR FILING DATE: 1998-04-25  
 ? PRIOR APPLICATION NUMBER: 60/079656  
 ? PRIOR FILING DATE: 1998-04-26  
 ? PRIOR APPLICATION NUMBER: 60/079664  
 ? PRIOR FILING DATE: 1998-04-27  
 ? PRIOR APPLICATION NUMBER: 60/079689  
 ? PRIOR FILING DATE: 1998-04-27  
 ? PRIOR APPLICATION NUMBER: 60/079663  
 ? PRIOR FILING DATE: 1998-04-27  
 ? PRIOR APPLICATION NUMBER: 60/079728  
 ? PRIOR FILING DATE: 1998-04-27  
 ? PRIOR APPLICATION NUMBER: 60/079786  
 ? PRIOR FILING DATE: 1998-04-27  
 ? PRIOR APPLICATION NUMBER: 60/079920  
 ? PRIOR FILING DATE: 1998-04-30  
 ? PRIOR APPLICATION NUMBER: 60/079923  
 ? PRIOR FILING DATE: 1998-04-30  
 ? PRIOR APPLICATION NUMBER: 60/080105  
 ? PRIOR FILING DATE: 1998-04-31  
 ? PRIOR APPLICATION NUMBER: 60/080107  
 ? PRIOR FILING DATE: 1998-04-31  
 ? PRIOR APPLICATION NUMBER: 60/080165  
 ? PRIOR FILING DATE: 1998-04-31  
 ? PRIOR APPLICATION NUMBER: 60/080194  
 ? PRIOR FILING DATE: 1998-04-31  
 ? PRIOR APPLICATION NUMBER: 60/080327  
 ? PRIOR FILING DATE: 1998-04-01  
 ? PRIOR APPLICATION NUMBER: 60/080328  
 ? PRIOR FILING DATE: 1998-04-01  
 ? PRIOR APPLICATION NUMBER: 60/080333  
 ? PRIOR FILING DATE: 1998-04-01  
 ? PRIOR APPLICATION NUMBER: 60/080334  
 ? PRIOR FILING DATE: 1998-04-01  
 ? PRIOR APPLICATION NUMBER: 60/081070  
 ? PRIOR FILING DATE: 1998-04-08  
 ? PRIOR APPLICATION NUMBER: 60/081049  
 ? PRIOR FILING DATE: 1998-04-08  
 ? PRIOR APPLICATION NUMBER: 60/081071  
 ? PRIOR FILING DATE: 1998-04-08  
 ? PRIOR APPLICATION NUMBER: 60/081195  
 ? PRIOR FILING DATE: 1998-04-08  
 ? PRIOR APPLICATION NUMBER: 60/081203  
 ? PRIOR FILING DATE: 1998-04-09  
 ? PRIOR APPLICATION NUMBER: 60/081229  
 ? PRIOR FILING DATE: 1998-04-09  
 ? PRIOR APPLICATION NUMBER: 60/081955  
 ? PRIOR FILING DATE: 1998-04-15  
 ? PRIOR APPLICATION NUMBER: 60/081817  
 ? PRIOR FILING DATE: 1998-04-15  
 ? PRIOR APPLICATION NUMBER: 60/081819  
 ? PRIOR FILING DATE: 1998-04-15  
 ? PRIOR APPLICATION NUMBER: 60/081952  
 ? PRIOR FILING DATE: 1998-04-15  
 ? PRIOR APPLICATION NUMBER: 60/081848  
 ? PRIOR FILING DATE: 1998-04-15  
 ? PRIOR APPLICATION NUMBER: 60/082568  
 ? PRIOR FILING DATE: 1998-04-21



```

? Patent No. US20020165445A1
? GENERAL INFORMATION:
? APPLICANT: Cohen, Daniel
? APPLICANT: Blumenfeld, Marta
? APPLICANT: Ilyia, Chumakov
? APPLICANT: Bouquellet, Lydie
? TITLE OF INVENTION: PROSTATE CANCER GENE
? FILE REFERENCE: GENSEL180CPC
? CURRENT APPLICATION NUMBER: US/09/854,526
? CURRENT FILING DATE: 2001-05-11
? PRIOR APPLICATION NUMBER: 09/438,907
? PRIOR FILING DATE: 1999-06-23
? PRIOR APPLICATION NUMBER: 08/996,406
? PRIOR FILING DATE: 1997-12-22
? PRIOR APPLICATION NUMBER: 60/099,658
? PRIOR FILING DATE: 1998-09-09
? PRIOR APPLICATION NUMBER: 09/218,207
? PRIOR FILING DATE: 1998-12-22
? NUMBER OF SEQ ID NOS: 578
? SOFTWARE: Patent.pm
? SEQ ID NO 410
? LENGTH: 47
? TYPE: DNA
? ORGANISM: Homo Sapiens
? FEATURE:
? NAME/KEY: allele
? LOCATION: 1..47
? NAME/KEY: allele
? LOCATION: 24
? OTHER INFORMATION: base G : A in SEQ ID233
? NAME/KEY: primer_bind
? LOCATION: 1..24
? OTHER INFORMATION: potential microsequencing oligo 99-12907-295.mis1
? NAME/KEY: primer_bind
? LOCATION: 25..47
? OTHER INFORMATION: complement potential microsequencing oligo 99-12907-295.mis2
US-09-854 526-310

Query Match 64.0%; Score 12.6; DB 9; Length 47;
Best Local Similarity 78.9%; Pred. No. 4, 5e+03;
Matches 15; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

QY 2 CAGAGTCTCTCGCGGG 20
DB 48 CAGAGTCTCTCGCGGG 20

RESULT 18
US-09-901 484A-310/c
? Sequence 310, Application US/09/901484A
? Patent No. US20020119460A1
? GENERAL INFORMATION:
? APPLICANT: Cohen, Daniel
? APPLICANT: Blumenfeld, Marta
? APPLICANT: Chumakov, Ilyia
? APPLICANT: Bouquellet, Lydie
? TITLE OF INVENTION: Prostate Cancer Gene
? FILE REFERENCE: GPN-F11XC302
? CURRENT APPLICATION NUMBER: US/09/901,484A
? CURRENT FILING DATE: 2001-07-09
? PRIOR APPLICATION NUMBER: US 08/996,406
? PRIOR FILING DATE: 1997-12-22
? PRIOR APPLICATION NUMBER: US 60/099,658
? PRIOR FILING DATE: 1998-09-09
? PRIOR APPLICATION NUMBER: US 09/218,207
? PRIOR FILING DATE: 1998-12-22
? PRIOR APPLICATION NUMBER: US 09/438,907
? PRIOR FILING DATE: 1999-06-23
? PRIOR APPLICATION NUMBER: US 09/854,526
? NUMBER OF SEQ ID NOS: 578
? SOFTWARE: PatentIn version 3.1

us-09-900-115-5.max.rnpb
? SEQ ID NO 410
? LENGTH: 47
? TYPE: DNA
? ORGANISM: Homo Sapiens
? FEATURE:
? NAME/KEY: allele
? LOCATION: (1)..(47)
? OTHER INFORMATION: polymorphic fragment 99-12907-295, variant version of SEQ ID 233
? NAME/KEY: allele
? LOCATION: (24)..(24)
? OTHER INFORMATION: polymorphic base G: A in SEQ ID 233
? NAME/KEY: primer_bind
? LOCATION: (1)..(24)
? OTHER INFORMATION: potential microsequencing oligo 99-12907-295.mis1
? NAME/KEY: primer_bind
? LOCATION: (25)..(47)
? OTHER INFORMATION: complement potential microsequencing oligo 99-12907-295.mis2
US-09-901 484A-310

Query Match 64.0%; Score 12.6; DB 10; Length 47;
Best Local Similarity 78.9%; Pred. No. 4, 5e+03;
Matches 15; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

QY 2 CAGAGTCTCTCGCGGG 20
DB 48 CAGAGTCTCTCGCGGG 20

RESULT 19
US-09-801-274-442
? Sequence 442, Application US/09801274
? Patent No. US20020042319A1
? GENERAL INFORMATION:
? APPLICANT: Garatti, Michele
? APPLICANT: Ireland, James S.
? APPLICANT: Landry, Eric S.
? TITLE OF INVENTION: HUMAN SINGLE NUCLEOTIDE POLYMORPHISMS
? FILE REFERENCE: 2825,2009-001
? CURRENT APPLICATION NUMBER: US/09/801,274
? CURRENT FILING DATE: 2001-03-07
? PRIOR APPLICATION NUMBER: US 60/187,510
? PRIOR FILING DATE: 2000-04-07
? PRIOR APPLICATION NUMBER: US 60/206,129
? PRIOR FILING DATE: 2000-05-22
? NUMBER OF SEQ ID NOS: 1802
? SOFTWARE: FastSeq for Windows Version 4.0
? SEQ ID NO 442
? LENGTH: 41
? TYPE: DNA
? ORGANISM: Homo Sapiens
US-09-801 274-442

Query Match 62.0%; Score 12.4; DB 10; Length 41;
Best Local Similarity 81.2%; Pred. No. 5, 4e+03;
Matches 13; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

QY 5 CAGATCTCTCTCGGG 20
DB 5 CAGATCTCTCTCGGG 20

RESULT 20
US-10-006-852-21
? Sequence 21, Application US/10006852
? Publication No. US20030046732A1
? GENERAL INFORMATION:
? APPLICANT: Kimmersely, Alan M.
? APPLICANT: Iurano, Frank J.
? TITLE OF INVENTION: Methods for Regulating Plant GABA Production
? FILE REFERENCE: 7224-65
? CURRENT APPLICATION NUMBER: US/10/006,852
? CURRENT FILING DATE: 2002-07-01
? PRIOR APPLICATION NUMBER: US 60/246,467

```

```

: PRIOR FILING DATE: 2000-11-07
: NUMBER OF SEQ ID NOS: 24
: SOFTWARE: Patent In version 3.1
: SEQ ID NO 21
: LENGTH: 42
: TYPE: DNA
: ORGANISM: Artificial Sequence
: OTHER INFORMATION: Synthetic oligonucleotide primer
US 10 022 609 6

```

```

Query Match
Best Local Similarity 61.0%; Score 12.2; DB 9; Length 42;
Matches 14; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

```

```

QY 4 AGAGTCTTCTTCAGG 19
DB 14 AGTCTTCTTCAGG 29

RESULT 21
US 10 022 609 6
: Sequence 6, Application US/10022609
: Publication No. US2004002405A1
: GENERAL INFORMATION:
: APPLICANT: Vardien, Richard L.
: Holmes, William E.
: TITLE OF INVENTION: Structure, production and use of
: Borequin 2 lipids
: NUMBER OF SEQUENCES: 17
: CORRESPONDENCE ADDRESS:
: ADDRESSEE: Genentech, Inc.
: STREET: 460 Point San Bruno Blvd
: CITY: South San Francisco
: STATE: California
: COUNTRY: USA
: ZIP: 94080

```

```

: COMPUTER READABLE FORM:
: MEDIUM TYPE: 5.25 Inch, 400 Kb Floppy disk
: COMPUTER: IBM PC compatible
: OPERATING SYSTEM: PC DOS/MS DOS
: SOFTWARE: patin (Genentech)
: CURRENT APPLICATION DATA:
: APPLICATION NUMBER: US/10022609
: FILING DATE: 17-Dec-2001
: CLASSIFICATION: unknown
: PRIOR APPLICATION DATA:
: APPLICATION NUMBER: US/08/440,401
: FILING DATE: 12-MAY-1995
: APPLICATION NUMBER: 08/440161
: FILING DATE: 25-OCT-1994
: APPLICATION NUMBER: 08/035430
: FILING DATE: 22-MAR-1993
: APPLICATION NUMBER: 07/705256
: FILING DATE: 24-MAY-1991
: ATTORNEY/AGENT INFORMATION:
: NAME: Lee, Wendy M.
: REGISTRATION NUMBER: 00,000
: REFERENCE/DOCKET NUMBER: 71204
: TELECOMMUNICATION INFORMATION:
: TELEPHONE: 415/225 1994
: TELEFAX: 415/952 9881
: INFORMATION FOR SEQ ID NO: 6:
: SEQUENCE CHARACTERISTICS:
: LENGTH: 42 bases
: TYPE: nucleic acid
: STRANDEDNESS: Single
: TOPOLOGY: Linear
: SEQUENCE DESCRIPTION: SEQ ID NO: 6:
US 10 022 609 6

```

```

Query Match
Best Local Similarity 61.0%; Score 12.2; DB 9; Length 42;
Matches 14; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

```

```

Best Local Similarity 82.4%; Pred. No. 6,90000;
Matches 14; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

QY 2 CAGAGAGTCTTCTTCAGG 18
DB 14 CAGAGAGTCTTCTTCAGG 17

RESULT 22
US 09 794 19 6
: Sequence 6, Application US/09/794199
: Patent No. US20020156265A1
: GENERAL INFORMATION:
: APPLICANT: Jones, Kenneth A
: TITLE OF INVENTION: DNA Encoding A GABA B62 Polypeptide And Uses Thereof
: FILE REFERENCE: 94002802US
: CURRENT APPLICATION NUMBER: US/09/794,199
: CURRENT FILING DATE: 2001 02 26
: NUMBER OF SEQ ID NOS: 55
: SOFTWARE: Patent In Ver. 3.1
: SEQ ID NO 6
: LENGTH: 45
: TYPE: DNA
: ORGANISM: Artificial Sequence
: FEATURE:
: OTHER INFORMATION: Oligonucleotide probe
US-09-794-199-6

```

```

Query Match
Best Local Similarity 61.0%; Score 12.2; DB 9; Length 45;
Matches 14; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

QY 4 CAGAGTCTTCTTCAGG 20
DB 7 CAGAGTCTTCTTCAGG 24

```

```

RESULT 23
US 09 818 879 6
: Sequence 6, Application US/09/818879
: Patent No. US2001002409A1
: GENERAL INFORMATION:
: APPLICANT: Jones, Kenneth
: APPLICANT: Latz, Thomas
: APPLICANT: Borowsky, Beth
: TITLE OF INVENTION: DNA encoding a GABA6R2 polypeptide and uses thereof
: FILE REFERENCE: 1795/4002DA
: CURRENT APPLICATION NUMBER: US/09/818,879
: CURRENT FILING DATE: 2001-04-27
: PRIOR APPLICATION NUMBER: US 09/211,755
: PRIOR FILING DATE: 1998 12 16
: NUMBER OF SEQ ID NOS: 55
: SOFTWARE: Patent In version 3.0
: SEQ ID NO 6
: LENGTH: 45
: TYPE: DNA
: ORGANISM: Artificial/Unknown
: FEATURE:
: NAME/KEY: miss feature
: LOCATION: ( )
: OTHER INFORMATION: primed
US-09-818-879-6

```

```

Query Match
Best Local Similarity 82.4%; Pred. No. 6,90000;
Matches 14; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

QY 4 CAGAGTCTTCTTCAGG 20
DB 7 CAGAGTCTTCTTCAGG 24

```

Wed Mar 19 09:05:29 2003

RESULT 24  
 US-09-211 755B-6  
 : Sequence 6: Application US/09/211755B  
 : Patent No. US20020045742A1  
 : GENERAL INFORMATION:  
 : APPLICANT: Kenneth A. Jones, Thomas M. Laz, Beth Berowsky  
 : TITLE OF INVENTION: DNA Encoding a GAAAGGZ Polypeptide And Uses Thereof  
 : FILE REFERENCE: 1795/54002-0  
 : CURRENT APPLICATION NUMBER: US/09/211,755B  
 : CURRENT FILING DATE: 1998-12-15  
 : PRIOR APPLICATION NUMBER: 09/186,664  
 : PRIOR FILING DATE: 1998-11-04  
 : NUMBER OF SEQ ID NOS: 56  
 : SOFTWARE: Patent In Version 4.1  
 : SEQ ID NO 6  
 : LENGTH: 45  
 : TYPE: DNA  
 : ORGANISM: Artificial Sequence  
 : FEATURE:  
 : OTHER INFORMATION: Probe  
 US-09-211 755B-6

Query Match: 61.0%; Score 12.2; LB 10; Length 45;  
 Best Local Similarity: 82.4%; Pred. No. 6, Acc 0.0;  
 Matches 14; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 4 GAAAGGZTCGTCGTCG 20  
 LB 7 GAAAGGZTCGTCGTCG 24

RESULT 25  
 US-09-918 156-59/c  
 : Sequence 59: Application US/09/918156  
 : Publication No. US20040042016A1  
 : GENERAL INFORMATION:  
 : APPLICANT: Barany, Francis  
 : APPLICANT: Lubin, Matthew  
 : TITLE OF INVENTION: DETECTION OF NUCLEIC ACID SEQUENCE DIFFERENCES USING  
 : FILE REFERENCE: COOPLED LIGASE DETECTION AND POLYMERASE CHAIN REACTIONS  
 : FILE REFERENCE: 19603/441  
 : CURRENT APPLICATION NUMBER: US/09/918,156  
 : CURRENT FILING DATE: 2001-07-30  
 : PRIOR APPLICATION NUMBER: 09/918,156  
 : PRIOR FILING DATE: 2001-01-30  
 : NUMBER OF SEQ ID NOS: 76  
 : SOFTWARE: Patent In Ver. 2.0  
 : SEQ ID NO 59  
 : LENGTH: 48  
 : TYPE: DNA  
 : ORGANISM: Artificial Sequence  
 : FEATURE:  
 : OTHER INFORMATION: Description of Artificial Sequence: Primer  
 US-09-918 156-59

Query Match: 61.0%; Score 12.2; LB 9; Length 48;  
 Best Local Similarity: 82.4%; Pred. No. 7, Acc 0.0;  
 Matches 14; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 4 AAGAGGTCGTCGTCG 19  
 LB 4 AAGAGGTCGTCGTCG 29

Search completed: March 18, 2003, 13:29:22  
 Job time: 36.1148 secs





GenEdit version 5.1.4.4\_p5\_4578  
Copyright (c) 1993 - 2003 Computer Ltd.

CM nucleic acid nucleic search, using SW model

Run on: March 18, 2003, 10:40:51 : Search time 494.461 Seconds  
(without alignments)  
1236.261 Million cell updates/sec

Title: us-09-900-115-2

Perfect score: 21  
Sequence: 1 quacatagacacccccccteq 21

Scoring table: IDENTITY NUC  
Gapop 10.0, Gapext 1.0

Searched: 2054640 seqs, 14551402878 residues

Total number of hits satisfying chosen parameters: 841850

Minimum hit seq length: 0  
Maximum hit seq length: 50

Post processing: Minimum Match 0%  
Maximum Match 100%  
Listing first 1000 summaries

Database :

GenBank: \*  
1: qb\_ba: \*  
2: qb\_hst: \*  
3: qb\_in: \*  
4: qb\_in: \*  
5: qb\_ov: \*  
6: qb\_pat: \*  
7: qb\_ph: \*  
8: qb\_pl: \*  
9: qb\_pr: \*  
10: qb\_ro: \*  
11: qb\_sts: \*  
12: qb\_sy: \*  
13: qb\_un: \*  
14: qb\_vt: \*  
15: em\_ba: \*  
16: em\_fun: \*  
17: em\_hum: \*  
18: em\_in: \*  
19: em\_mus: \*  
20: em\_om: \*  
21: em\_or: \*  
22: em\_ov: \*  
23: em\_pat: \*  
24: em\_ph: \*  
25: em\_pl: \*  
26: em\_ro: \*  
27: em\_sts: \*  
28: em\_un: \*  
29: em\_vt: \*  
30: em\_hst\_hum: \*  
31: em\_hst\_in: \*  
32: em\_hst\_other: \*  
33: em\_hst\_mus: \*  
34: em\_hst\_pln: \*  
35: em\_hst\_ro: \*  
36: em\_hst\_mam: \*  
37: em\_hst\_vrt: \*  
38: em\_sy: \*  
39: em\_hst\_hum: \*  
40: em\_hst\_mus: \*  
41: em\_hst\_other: \*

Prod. No. is the number of results predicted by chance to have a

score greater than or equal to the score of the result being printed,  
and is derived by analysis of the total score distribution.

# SUMMARIES

Result No.	Score	Query Match	Length	DB	ID	Description
1	14.8	70.5	20	6	AR170368	Sequence
2	14.2	67.6	46	6	AR032657	Sequence
3	14.2	67.6	46	6	AR20921	Sequence
4	14.2	67.6	46	6	129397	Sequence
5	14.2	67.6	46	6	191071	Sequence
6	13.8	65.7	28	6	E35104	Truncated c
7	13.8	65.7	40	6	A48363	Sequence
8	13.8	65.7	43	6	AR174752	Sequence
9	13.6	64.8	50	9	HSRLX1A1	X96914 H.sapiens H
10	13.4	63.8	21	6	AX03541	Sequence
11	13.2	62.9	23	6	AX035620	Sequence
12	13.2	62.9	25	6	E11411	Primer: 9/1
13	13.2	62.9	27	6	AR091539	Sequence
14	13.2	62.9	27	6	AR102232	Sequence
15	13.2	62.9	40	6	AX280561	Sequence
16	13.2	62.9	41	6	A00475	Nucleot ide
17	13.2	62.9	41	6	A00479	Nucleot ide
18	13.2	62.9	45	6	A00476	Nucleot ide
19	13.2	62.9	45	6	A00480	Nucleot ide
20	13.2	62.9	48	6	AX088738	Sequence
21	13.2	62.9	42	6	AR162155	Sequence
22	13	61.9	25	6	AR097431	Sequence
23	13	61.9	28	6	AR058910	Sequence
24	13	61.9	28	6	136271	Sequence
25	13	61.9	33	6	A76106	Sequence
26	12.8	61.0	19	6	AX347976	Sequence
27	12.8	61.0	24	6	AX488595	Sequence
28	12.8	61.3	33	6	AX026022	Sequence
29	12.6	60.0	32	6	AX079038	Sequence
30	12.6	60.0	39	6	AR142764	Sequence
31	12.6	60.0	40	6	101689	Sequence
32	12.6	60.0	50	6	AX279663	Sequence
33	12.6	60.0	50	6	AX286287	Sequence
34	12.4	59.0	17	6	AR164582	Sequence
35	12.4	59.0	18	6	AX207163	Sequence
36	12.4	59.0	24	6	AR127407	Sequence
37	12.4	59.0	24	6	AX445267	Sequence
38	12.4	59.0	25	6	AR094680	Sequence
39	12.4	59.0	25	6	AR202372	Sequence
40	12.4	59.0	41	6	AR084474	Sequence
41	12.4	59.0	41	6	AR172373	Sequence
42	12.4	59.0	41	6	AX248931	Sequence
43	12.4	59.0	41	6	AX249175	Sequence
44	12.2	58.1	23	6	AX062252	Sequence
45	12.2	58.1	24	6	AX074260	Sequence
46	12.2	58.1	25	6	E29099	Neutrol c
47	12.2	58.1	26	6	AX037777	Sequence
48	12.2	58.1	40	6	AX055052	Sequence
49	12.2	58.1	41	6	AX248331	Sequence
50	12.2	58.1	35	6	AR085280	Sequence
51	12.2	58.1	35	6	AR203328	Sequence
52	12.2	58.1	35	6	E22806	Method for
53	12.2	58.1	35	6	117711	Sequence
54	12.2	58.1	39	6	138623	Sequence
55	12.2	58.1	40	6	AX172226	Sequence
56	12.2	58.1	40	6	AR4613	Sequence
57	12.2	58.1	44	10	MUS13LJH	Mus muscu
58	12	57.1	21	6	AX154123	Sequence
59	12	57.1	23	6	AR177809	Sequence
60	12	57.1	26	6	AR097423	Sequence
61	12	57.1	27	6	AR044876	Sequence
62	12	57.1	40	6	AR083504	Sequence
63	12	57.1	40	6	AR108661	Sequence
64	12	57.1	34	6	A58939	Sequence
65	12	57.1	34	6	AR161631	Sequence



c 212	11.2	53.3	17	6	AX475592	Sequence	AX475592	Sequence	182859	Sequence	48
c 213	11.2	53.3	17	6	AX475593	Sequence	AX475593	Sequence	192722	Sequence	48
c 214	11.2	53.3	18	6	AK042295	Sequence	AK042295	Sequence	AX57927	Sequence	48
c 215	11.2	53.3	18	6	AK196142	Sequence	AK196142	Sequence	AK127595	Sequence	48
c 216	11.2	53.3	18	6	AK202263	Sequence	AK202263	Sequence	AX469669	Sequence	48
c 217	11.2	53.3	18	6	AX453424	Sequence	AX453424	Sequence	175264	Sequence	14
c 218	11.2	53.3	20	6	AK150409	Sequence	AK150409	Sequence	AX080992	Sequence	48
c 219	11.2	53.3	20	6	AX201291	Sequence	AX201291	Sequence	AX080992	Sequence	48
c 220	11.2	53.3	20	6	AX201727	Sequence	AX201727	Sequence	AX080992	Sequence	48
c 221	11.2	53.3	20	6	AX294968	Sequence	AX294968	Sequence	AX111480	Sequence	48
c 222	11.2	53.3	20	6	AX297379	Sequence	AX297379	Sequence	AX214507	Sequence	48
c 223	11.2	53.3	20	6	AX463650	Sequence	AX463650	Sequence	AX469966	Sequence	48
c 224	11.2	53.3	20	6	E38877	Chimeric an	E38877	Chimeric an	BD009286	Mutant	48
c 225	11.2	53.3	20	6	134916	Sequence	134916	Sequence	BD009295	Mutant	48
c 226	11.2	53.3	21	6	AX6466	Sequence	AX6466	Sequence	BD009304	Mutant	48
c 227	11.2	53.3	21	6	AX8115	Sequence	AX8115	Sequence	114659	Human	48
c 228	11.2	53.3	21	6	AX0082	Sequence	AX0082	Sequence	114659	Human	48
c 229	11.2	53.3	21	6	AX020178	Sequence	AX020178	Sequence	114659	Human	48
c 230	11.2	53.3	21	6	AX086618	Sequence	AX086618	Sequence	114659	Human	48
c 231	11.2	53.3	21	6	125838	Sequence	125838	Sequence	114659	Human	48
c 232	11.2	53.3	23	6	AX180363	Sequence	AX180363	Sequence	114659	Human	48
c 233	11.2	53.3	23	6	AX45839	Sequence	AX45839	Sequence	114659	Human	48
c 234	11.2	53.3	24	6	AX049749	Sequence	AX049749	Sequence	114659	Human	48
c 235	11.2	53.3	24	6	AX073756	Sequence	AX073756	Sequence	114659	Human	48
c 236	11.2	53.3	24	6	AX074391	Sequence	AX074391	Sequence	114659	Human	48
c 237	11.2	53.3	24	6	AX081717	Sequence	AX081717	Sequence	114659	Human	48
c 238	11.2	53.3	24	6	AX082487	Sequence	AX082487	Sequence	114659	Human	48
c 239	11.2	53.3	24	6	AX123776	Sequence	AX123776	Sequence	114659	Human	48
c 240	11.2	53.3	24	6	AX149643	Sequence	AX149643	Sequence	114659	Human	48
c 241	11.2	53.3	24	6	AX200337	Sequence	AX200337	Sequence	114659	Human	48
c 242	11.2	53.3	24	6	AX046440	Sequence	AX046440	Sequence	114659	Human	48
c 243	11.2	53.3	24	6	AX046448	Sequence	AX046448	Sequence	114659	Human	48
c 244	11.2	53.3	24	6	AX290335	Sequence	AX290335	Sequence	114659	Human	48
c 245	11.2	53.3	24	6	AX292745	Sequence	AX292745	Sequence	114659	Human	48
c 246	11.2	53.3	24	6	AX292745	Sequence	AX292745	Sequence	114659	Human	48
c 247	11.2	53.3	25	6	AX053297	Sequence	AX053297	Sequence	114659	Human	48
c 248	11.2	53.3	25	6	AX476569	Sequence	AX476569	Sequence	114659	Human	48
c 249	11.2	53.3	25	6	AX476570	Sequence	AX476570	Sequence	114659	Human	48
c 250	11.2	53.3	25	6	AX476571	Sequence	AX476571	Sequence	114659	Human	48
c 251	11.2	53.3	25	6	AX476572	Sequence	AX476572	Sequence	114659	Human	48
c 252	11.2	53.3	25	6	AX476573	Sequence	AX476573	Sequence	114659	Human	48
c 253	11.2	53.3	25	6	AX476574	Sequence	AX476574	Sequence	114659	Human	48
c 254	11.2	53.3	25	6	AX476575	Sequence	AX476575	Sequence	114659	Human	48
c 255	11.2	53.3	25	6	AX476576	Sequence	AX476576	Sequence	114659	Human	48
c 256	11.2	53.3	25	6	AX476577	Sequence	AX476577	Sequence	114659	Human	48
c 257	11.2	53.3	25	6	AX476578	Sequence	AX476578	Sequence	114659	Human	48
c 258	11.2	53.3	25	6	E03516	oligonucleo	E03516	oligonucleo	114659	Human	48
c 259	11.2	53.3	25	6	140916	Sequence	140916	Sequence	114659	Human	48
c 260	11.2	53.3	27	6	AX194742	Sequence	AX194742	Sequence	114659	Human	48
c 261	11.2	53.3	28	6	AX016677	Sequence	AX016677	Sequence	114659	Human	48
c 262	11.2	53.3	28	6	AX059711	Sequence	AX059711	Sequence	114659	Human	48
c 263	11.2	53.3	28	6	AX098071	Sequence	AX098071	Sequence	114659	Human	48
c 264	11.2	53.3	28	6	162292	Sequence	162292	Sequence	114659	Human	48
c 265	11.2	53.3	29	6	AX109234	Sequence	AX109234	Sequence	114659	Human	48
c 266	11.2	53.3	29	6	139759	Sequence	139759	Sequence	114659	Human	48
c 267	11.2	53.3	30	6	AX225248	Sequence	AX225248	Sequence	114659	Human	48
c 268	11.2	53.3	30	6	AX431449	Sequence	AX431449	Sequence	114659	Human	48
c 269	11.2	53.3	30	6	AX474226	Sequence	AX474226	Sequence	114659	Human	48
c 270	11.2	53.3	30	6	E04099	qDNA encodi	E04099	qDNA encodi	114659	Human	48
c 271	11.2	53.3	31	6	AX206884	Sequence	AX206884	Sequence	114659	Human	48
c 272	11.2	53.3	31	6	AX249341	Sequence	AX249341	Sequence	114659	Human	48
c 273	11.2	53.3	33	6	A11505	Synthetic	A11505	Synthetic	114659	Human	48
c 274	11.2	53.3	33	6	AX004384	Sequence	AX004384	Sequence	114659	Human	48
c 275	11.2	53.3	33	6	AX004760	Sequence	AX004760	Sequence	114659	Human	48
c 276	11.2	53.3	33	6	AX062477	Sequence	AX062477	Sequence	114659	Human	48
c 277	11.2	53.3	33	6	AX067933	Sequence	AX067933	Sequence	114659	Human	48
c 278	11.2	53.3	33	6	AX069589	Sequence	AX069589	Sequence	114659	Human	48
c 279	11.2	53.3	33	6	AX092175	Sequence	AX092175	Sequence	114659	Human	48
c 280	11.2	53.3	33	6	AX130673	Sequence	AX130673	Sequence	114659	Human	48
c 281	11.2	53.3	33	6	AX166792	Sequence	AX166792	Sequence	114659	Human	48
c 282	11.2	53.3	34	6	AX172022	Sequence	AX172022	Sequence	114659	Human	48
c 283	11.2	53.3	34	6	E41685	Process for	E41685	Process for	114659	Human	48
c 284	11.2	53.3	34	6	125003	Sequence	125003	Sequence	114659	Human	48









[illegible]









```

ORGANISM unidentified
FEATURES
  source
    location/Qualifiers
      1..31
      /organism "unidentified"
      /db_xref "taxon:32644"
BASE COUNT
  G 4 11 C 10 G 5 T
ORIGIN
  Query Match 62.9%; Score 13.2; DB 6; Length 41;
  Best Local Similarity 83.9%; Pred. No. 3; 0.05;
  Matches 15; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

QY 1 GACCATGGAGGCGG 18
  1 | | | | | | | | | |
Db 6 GACCATGGAGGCGG 24

RESULT 17
LOCUS A00479
DEFINITION Nucleotide sequence 12 from patent number W09005185.
ACCESSION A00479
VERSION A00479.1 GI:1566710
KEYWORDS
  unidentified.
  unidentified.
  unclassified.
FEATURES
  source
    location/Qualifiers
      1..31
      /organism "unidentified"
      /db_xref "taxon:32644"
BASE COUNT
  G 4 11 C 10 G 5 T
ORIGIN
  Query Match 62.9%; Score 13.2; DB 6; Length 41;
  Best Local Similarity 83.9%; Pred. No. 3; 0.05;
  Matches 15; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

QY 1 GACCATGGAGGCGG 18
  1 | | | | | | | | | |
Db 6 GACCATGGAGGCGG 24

RESULT 18
LOCUS A00476
DEFINITION Nucleotide sequence 9 from patent number W09005185.
ACCESSION A00476
VERSION A00476.1 GI:1566708
KEYWORDS
  unidentified.
  unidentified.
  unclassified.
FEATURES
  source
    location/Qualifiers
      1..35
      /organism "unidentified"
      /db_xref "taxon:32644"
BASE COUNT
  G 4 11 C 12 G 6 T
ORIGIN
  Query Match 62.9%; Score 13.2; DB 6; Length 41;
  Best Local Similarity 83.9%; Pred. No. 3; 0.05;
  Matches 15; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

QY 1 GACCATGGAGGCGG 18
  1 | | | | | | | | | |
Db 6 GACCATGGAGGCGG 24

RESULT 19
LOCUS A00480
DEFINITION Nucleotide sequence 13 from patent number W09005185.
ACCESSION A00480
VERSION A00480.1 GI:1566711
KEYWORDS
  unidentified.
  unidentified.
  unclassified.
FEATURES
  source
    location/Qualifiers
      1..35
      /organism "unidentified"
      /db_xref "taxon:32644"
BASE COUNT
  G 4 11 C 12 G 6 T
ORIGIN
  Query Match 62.9%; Score 13.2; DB 6; Length 41;
  Best Local Similarity 83.9%; Pred. No. 3; 0.05;
  Matches 15; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

QY 1 GACCATGGAGGCGG 18
  1 | | | | | | | | | |
Db 40 GACCATGGAGGCGG 14

RESULT 20
LOCUS A0088748
DEFINITION Sequence 64 from patent W0114416.
ACCESSION A0088748
VERSION A0088748.1 GI:13397544
KEYWORDS
  synthetic construct.
  synthetic construct.
  artificial sequences.
  1 (bases 1 to 48)
REFERENCE
  1 (bases 1 to 48)
  Neupert M.P., Moellmanns W.L., Jansen K.H., Schmitz L.D., Chen L.
  and Wand X.M.
  Synthetic human papillomavirus genes
  Patent: W0114416 A 64 01 MAR 2001;
  Merck & Co., Inc. (US)
FEATURES
  source
    location/Qualifiers
      1..48
      /organism "synthetic construct"
      /db_xref "taxon:32644"
BASE COUNT
  T 4 18 C 18 G 5 T
ORIGIN
  Query Match 62.9%; Score 13.2; DB 6; Length 48;
  Best Local Similarity 83.9%; Pred. No. 2; 0.05;
  Matches 15; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

QY 4 CCAAGGAGGCGGCGG 21
  | | | | | | | | | |
Db 17 CCAAGGAGGCGGCGG 44

RESULT 21
LOCUS A0162155
DEFINITION Sequence 4 from patent US 6,258,666.
ACCESSION A0162155
VERSION A0162155.1 GI:16279240
KEYWORDS
  unknown.
  unknown.
  unclassified.
REFERENCE
  1 (bases 1 to 42)
  Bart P.L., Sand J.D.V., Ashley G.W. and Zietmann R.
  Production of polypeptides in bacter 14 and yeast
  Patent: US 6,258,666 A 4 10 JUL 2001;
  Location/Qualifiers
    1..42
    /organism "unknown"
  
```

BASE COUNT 13 a 8 c 10 g 11 t  
ORIGIN

Query Match 62.9% Score 13.2; DB 6; Length 42;  
Best Local Similarity 83.4% Pred. No. 2.9e+05;  
Matches 15; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

QY 4 CATTAGGAGGCGGCTGG 21  
11111 111 111 111  
DB 40 CATTAGGAGGCGGCTGG 24

RESULT 22  
AC097431  
LOCUS AR097431 25 bp DNA linear PAT 14-FEB-2001  
DEFINITION Sequence 15 from patent US 6071729.  
AC097431  
VERSION AR097431.1 GI:12806161  
KEYWORDS  
SOURCE Unknown.  
ORGANISM Unknown.  
REFERENCE 1 (bases 1 to 25)  
AUTHORS Jettifles,L.W. and Shi,N. Q.  
TITLE Disruption of the cytochrome c gene in xylosofermenting yeast  
JOURNAL Patent: US 6071729-A 15 06-JUN-2000;  
FEATURES  
Source location/Qualifiers  
1..25  
/organism "unknown"

BASE COUNT 4 a 9 c 7 g 5 t  
ORIGIN

Query Match 61.9% Score 13; DB 6; Length 25;  
Best Local Similarity 76.2% Pred. No. 4.9e+05;  
Matches 16; Conservative 0; Mismatches 5; Indels 0; Gaps 0;

QY 1 GATCATGAGGAGCCCGCTGG 21  
11111 111 111 111  
DB 5 GATCATGAGGAGCCCGCTGG 25

RESULT 24  
AR058910/c  
LOCUS AR058910 28 bp DNA linear PAT 29-SEP-1999  
DEFINITION Sequence 16 from patent US 5837846.  
AC058910  
VERSION AR058910.1 GI:5984487  
KEYWORDS  
SOURCE Unknown.  
ORGANISM Unknown.  
REFERENCE 1 (bases 1 to 28)  
AUTHORS Friederich,K., Jones,M.Z., Chen,H. and Cavanagh,K.F.  
TITLE Bovine beta-mannosidase nucleic acid sequence  
JOURNAL Patent: US 5837846-A 16 17-NOV-1998;  
FEATURES  
Source location/Qualifiers  
1..28  
/organism "unknown"

BASE COUNT 7 a 5 c 6 g 4 t 6 others  
ORIGIN

Query Match 61.9% Score 13; DB 6; Length 28;  
Best Local Similarity 65.0% Pred. No. 4.8e+05;  
Matches 14; Conservative 4; Mismatches 4; Indels 0; Gaps 0;

QY 2 ACCATAGGAGGCGGCTGG 21  
111 111 111 111 111  
DB 21 ACCATAGGAGGCGGCTGG 2

RESULT 24  
146271/c  
LOCUS 146271 linear PAT 13-MAY-1997

DEFINITION Sequence 16 from patent US 5605797.  
AC057971/c  
VERSION 146271.1 GI:2086784  
KEYWORDS  
SOURCE Unknown.  
ORGANISM Unknown.  
REFERENCE 1 (bases 1 to 28)  
AUTHORS Friederich,K., Jones,M.Z., Chen,H. and Cavanagh,K.F.  
TITLE Bovine beta-mannosidase gene and methods of use  
JOURNAL Patent: US 5605797-A 16 25-FEB-1997;  
FEATURES  
Source location/Qualifiers  
1..28  
/organism "unknown"

BASE COUNT 7 a 5 c 6 g 4 t 6 others  
ORIGIN

Query Match 61.9% Score 13; DB 6; Length 28;  
Best Local Similarity 65.0% Pred. No. 4.8e+05;  
Matches 14; Conservative 4; Mismatches 4; Indels 0; Gaps 0;

QY 2 ACCATAGGAGGCGGCTGG 21  
111 111 111 111 111  
DB 21 ACCATAGGAGGCGGCTGG 2

RESULT 25  
A76106  
LOCUS A76106 33 bp DNA linear PAT 19-OCT-1999  
DEFINITION Sequence 45 from Patent WO9320210.  
AC058910  
VERSION A76106.1 GI:6088247  
KEYWORDS  
SOURCE unidentified.  
ORGANISM unidentified.  
REFERENCE 1 (bases 1 to 33)  
AUTHORS Taylor,G. and Stott,F.J.  
TITLE ANTIBODIES FOR TREATMENT AND PREVENTION OF RESPIRATORY SYNCYTIAL  
VIRUS INFECTION  
JOURNAL Patent: WO 9320210-A 45 14-OCT-1993;  
FEATURES  
Source location/Qualifiers  
1..33  
/organism "unidentified"

BASE COUNT 7 a 13 c 5 g 8 t  
ORIGIN

Query Match 61.9% Score 13; DB 6; Length 43;  
Best Local Similarity 76.2% Pred. No. 4.7e+05;  
Matches 14; Conservative 0; Mismatches 5; Indels 0; Gaps 0;

QY 1 GATCATGAGGAGGCGGCTGG 21  
11111 111 111 111  
DB 12 GATCATGAGGAGGCGGCTGG 42

Search completed: March 18, 2003, 11:26:18  
Job time : 509.694 secs



om nucleic acid search, using sw model  
 Run on: March 18, 2003, 10:48:56 : Search time 116.661 Seconds  
 (without alignments)  
 406.426 Million cell updates/sec

Title: us-09-900-115-2

Perfect score: 21

Sequence: 1 qacvacatqacqacccctccq z1

Scoring table: IDENTITY\_NUP

Gapop 10.0 : Gapext 1.0

Searched: 2185249 seqs, 112599159 residues

Total number of hits satisfying chosen parameters: 2166140

Minimum hit seq length: 0

Maximum hit seq length: 50

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 1000 summaries

Database : N\_Gnueseq\_101002.\*

1: /SID52/qcdata/gnueseq/gnueseq-emb1/NA1980.DAT.\*  
 2: /SID52/qcdata/gnueseq/gnueseq-emb1/NA1981.DAT.\*  
 3: /SID52/qcdata/gnueseq/gnueseq-emb1/NA1982.DAT.\*  
 4: /SID52/qcdata/gnueseq/gnueseq-emb1/NA1983.DAT.\*  
 5: /SID52/qcdata/gnueseq/gnueseq-emb1/NA1984.DAT.\*  
 6: /SID52/qcdata/gnueseq/gnueseq-emb1/NA1985.DAT.\*  
 7: /SID52/qcdata/gnueseq/gnueseq-emb1/NA1986.DAT.\*  
 8: /SID52/qcdata/gnueseq/gnueseq-emb1/NA1987.DAT.\*  
 9: /SID52/qcdata/gnueseq/gnueseq-emb1/NA1988.DAT.\*  
 10: /SID52/qcdata/gnueseq/gnueseq-emb1/NA1989.DAT.\*  
 11: /SID52/qcdata/gnueseq/gnueseq-emb1/NA1990.DAT.\*  
 12: /SID52/qcdata/gnueseq/gnueseq-emb1/NA1991.DAT.\*  
 13: /SID52/qcdata/gnueseq/gnueseq-emb1/NA1992.DAT.\*  
 14: /SID52/qcdata/gnueseq/gnueseq-emb1/NA1993.DAT.\*  
 15: /SID52/qcdata/gnueseq/gnueseq-emb1/NA1994.DAT.\*  
 16: /SID52/qcdata/gnueseq/gnueseq-emb1/NA1995.DAT.\*  
 17: /SID52/qcdata/gnueseq/gnueseq-emb1/NA1996.DAT.\*  
 18: /SID52/qcdata/gnueseq/gnueseq-emb1/NA1997.DAT.\*  
 19: /SID52/qcdata/gnueseq/gnueseq-emb1/NA1998.DAT.\*  
 20: /SID52/qcdata/gnueseq/gnueseq-emb1/NA1999.DAT.\*  
 21: /SID52/qcdata/gnueseq/gnueseq-emb1/NA2000.DAT.\*  
 22: /SID52/qcdata/gnueseq/gnueseq-emb1/NA2001A.DAT.\*  
 23: /SID52/qcdata/gnueseq/gnueseq-emb1/NA2001B.DAT.\*  
 24: /SID52/qcdata/gnueseq/gnueseq-emb1/NA2002.DAT.\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

#### SUMMARIES

Result No.	Score	* Match	Length	ID	Description
1	21	100.0	21	AA063650	GF-beta type II r
2	14.8	70.5	20	AA026981	PCR primer used to
3	14.8	70.5	20	AAA47934	PCR primer used in
4	14.8	70.5	50	AA011563	Human secreted pro
5	14.2	67.6	46	AA069519	Human gene PRB-1
6	14.2	67.6	46	AA063981	Human prolactin-rich
7	14.2	67.6	46	AA017269	Test sequence from
8	14.2	67.6	46	ABK42760	DNA binding molecu
9	14.8	65.7	18	AA046728	Type II phosphodi

c	10	14.8	65.7	23	20	AA021215	Zea mays pathogene
c	11	14.8	65.7	28	20	AA055666	Truncated cellulase
c	12	14.8	65.7	29	17	AA012530	Kat V30 retortan
c	13	14.8	65.7	30	20	AA021205	Zea mays pathogene
c	14	14.8	65.7	33	24	AA023612	Canine p53 cDNA am
c	15	14.6	64.8	43	20	AA080213	Maize PLE DNA ampl
c	16	14.4	63.8	21	21	AA058276	Human P60290 hybr
c	17	14.4	63.8	21	22	AA044489	Human P60290 hybr
c	18	14.4	63.8	22	21	AA050309	Human TNF receptor
c	19	14.4	63.8	22	21	AA033767	PCR primer for amp
c	20	13.2	62.9	19	20	AA080220	Maize PLE gene and
c	21	13.2	62.9	23	21	AA079944	R. subtilis STRA-B
c	22	13.2	62.9	25	17	AA035014	TMF-1/41b-metlin
c	23	13.2	62.9	27	15	AA058543	p55 mouse Nur prot
c	24	13.2	62.9	27	19	AA07264	VA-RNA3 reverse pr
c	25	13.2	62.9	30	23	AB097742	Endogenous human G
c	26	13.2	62.9	31	19	AA017890	Primer used to con
c	27	13.2	62.9	31	19	AA017891	Primer used to con
c	28	13.2	62.9	38	22	AA075446	Codon-optimized H
c	29	13.2	62.9	39	20	AA080210	Maize PLE DNA ampl
c	30	13.2	62.9	40	21	AA099032	Human LGR39 PCR p
c	31	13.2	62.9	50	22	AA032246	Human SNP oligonuc
c	32	13	61.9	17	17	AA024163	EGF directed phos
c	33	13	61.9	17	17	AA058180	5'-guanosine cappe
c	34	13	61.9	21	17	AA024164	EGF directed phos
c	35	13	61.9	21	17	AA058181	Guanosine-capped a
c	36	13	61.9	25	21	AA058120	Pichia stipitis cy
c	37	13	61.9	28	18	AA062431	Rosine beta-mannos
c	38	13	61.9	28	20	AA064128	Rosine beta-mannos
c	39	13	61.9	30	14	AA038863	Wild type hgh DNA
c	40	13	61.9	36	21	AA074777	Human growth hormo
c	41	13	61.9	41	24	AA043308	Human parkinson's
c	42	13	61.9	50	22	AA034327	Human SNP oligonuc
c	43	12.8	61.0	19	24	ABK33425	Human TNF receptor
c	44	12.8	61.0	20	22	AA003522	Human Mus81 amplifi
c	45	12.8	61.0	26	20	AA060983	Mouse lamp-1 stana
c	46	12.8	61.0	31	22	AA030766	Human single nucle
c	47	12.8	61.0	33	21	AA029332	Primer 1 for HLA-A
c	48	12.8	61.0	33	24	AA040520	ATP dependent RNA
c	49	12.8	61.0	47	21	AA067588	Human map-related
c	50	12.6	61.0	47	21	AA045806	PCR primer used to
c	51	12.6	61.0	21	24	ABK65488	Human single nucle
c	52	12.6	61.0	26	21	AA094722	Neurotrophin-4 (N
c	53	12.6	61.0	31	22	AA029922	Human single nucle
c	54	12.6	61.0	32	22	AA072859	Primer #1, Homo S
c	55	12.6	61.0	39	22	AA083418	Flea serine protea
c	56	12.6	61.0	41	22	AA068369	Human immunophilin
c	57	12.6	61.0	50	22	AA027825	Human SNP oligonuc
c	58	12.6	61.0	50	22	AA027826	Human SNP oligonuc
c	59	12.6	61.0	50	22	AA028286	Human SNP oligonuc
c	60	12.6	61.0	50	22	AA032019	Human SNP oligonuc
c	61	12.6	61.0	50	24	AA010706	Ldl adapter oligo
c	62	12.6	61.0	50	24	AA022814	Human EMB2 extrac
c	63	12.4	59.0	17	18	AA093092	Epidermal growth f
c	64	12.4	59.0	17	20	AA001062	Mutant primer for
c	65	12.4	59.0	18	24	AA013459	Human CSF5 hyaluro
c	66	12.4	59.0	24	22	AA059752	Corrected human pr
c	67	12.4	59.0	24	24	AB001715	Oligonucleotide ad
c	68	12.4	59.0	24	24	AB007463	Oligonucleotide ad
c	69	12.4	59.0	25	17	AA042297	HIV-2(ST) vpx gene
c	70	12.4	59.0	25	22	AA073737	HIV-2ST vpx coding
c	71	12.4	59.0	31	16	AA092585	Thermus thermophil
c	72	12.4	59.0	31	16	AA092585	Thermus thermophil
c	73	12.4	59.0	33	24	AA092585	Human ATP-depende
c	74	12.4	59.0	33	24	AA052960	Human dihydroxyrid
c	75	12.4	59.0	46	22	AA095837	Human PCR primer 1
c	76	12.4	59.0	50	21	AA002991	Human secreted pro
c	77	12.4	59.0	50	21	AA011168	Human secreted pro
c	78	12.2	58.1	17	18	AA076215	Human IL4 receptor
c	79	12.2	58.1	17	20	AA054010	Human IL4 receptor
c	80	12.2	58.1	17	21	AA019576	Human IL4 receptor
c	81	12.2	58.1	17	21	AA033454	Low adenosine anti
c	82	12.2	58.1	20	20	AA020199	PCR primer used to

c	83	12.2	58.1	21	21	AAA52958	Rat GAD65 antisense	156	11.8	55.2	31	22	AAI30522	Human Sirtuin 1			
c	84	12.2	58.1	21	22	AA522045	Human CCL1A1 PCR p	157	11.8	55.2	36	24	AAI94239	Human Sirtuin 1			
c	85	12.2	58.1	23	22	AAI63934	Human tankyrase 2 c	158	11.8	56.2	37	19	AAV5514	Human Sirtuin 1			
c	86	12.2	58.1	24	19	AAV40335	Cytochrome P45011d	c	159	11.8	56.2	38	20	AAI86370	Human Sirtuin 1		
c	87	12.2	58.1	24	22	AAV26203	Gamma-crystalline	c	160	11.8	56.2	39	18	AAI58895	Human Sirtuin 1		
c	88	12.2	58.1	25	15	AAI74772	Class 1 MIP heavy	c	161	11.8	56.2	39	22	AAI96342	Human Sirtuin 1		
c	89	12.2	58.1	26	22	AAI17000	Informal curvy	c	162	11.8	56.2	41	19	AAV50942	Human Sirtuin 1		
c	90	12.2	58.1	29	22	AAI75449	Human EPI1-2 (condm	c	163	11.8	56.2	41	19	AAV50943	Human Sirtuin 1		
c	91	12.2	58.1	29	22	AAI75451	Human EPI1-2 (condm	c	164	11.8	56.2	41	19	AAV47760	Human Sirtuin 1		
c	92	12.2	58.1	30	20	AAI08156	RII1 sequence-Spec	c	165	11.8	56.2	41	19	AAV47759	Human Sirtuin 1		
c	93	12.2	58.1	40	22	AAI82190	Interleukin 4 (IL	c	166	11.8	56.2	41	24	AAI40522	Human Sirtuin 1		
c	94	12.2	58.1	30	22	AAI90413	Wild-type IL-4 pep	c	167	11.8	56.2	41	24	AAI40523	Human Sirtuin 1		
c	95	12.2	58.1	33	16	AAI05131	Mutant H5V1 thym	c	168	11.8	56.2	42	18	AAI97208	Human Sirtuin 1		
c	96	12.2	58.1	33	20	AAI57668	Codon 165-175 of	c	169	11.8	56.2	45	22	AAI22225	Human Sirtuin 1		
c	97	12.2	58.1	33	20	AAI57664	Human quarylate ki	c	170	11.8	56.2	45	22	AAI20090	Human Sirtuin 1		
c	98	12.2	58.1	33	20	AAI15367	Codon 165-175 of	c	171	11.8	56.2	47	15	AAI68647	Human Sirtuin 1		
c	99	12.2	58.1	33	20	AAI15470	Human quarylate ki	c	172	11.8	56.2	47	16	AAI80390	Human Sirtuin 1		
c	100	12.2	58.1	33	24	AAI53301	beta-galactosidase	c	173	11.8	56.2	47	16	AAI80668	Human Sirtuin 1		
c	101	12.2	58.1	35	14	AAI76995	Human KA-2 recepto	c	174	11.8	56.2	47	21	AAI268597	Human Sirtuin 1		
c	102	12.2	58.1	35	20	AAI27581	PPAR cDNA amplifiy	c	175	11.8	56.2	48	20	AAI87189	Human Sirtuin 1		
c	103	12.2	58.1	36	15	AAI56332	Primer for Listeri	c	176	11.8	56.2	48	22	AAI97661	Human Sirtuin 1		
c	104	12.2	58.1	36	20	AAI00902	Mar48 cDNA modifi	c	177	11.8	56.2	50	22	AAI29806	Human Sirtuin 1		
c	105	12.2	58.1	36	21	AAI59876	Mortierella alpina	c	178	11.8	56.2	50	22	AAI34645	Human Sirtuin 1		
c	106	12.2	58.1	39	24	AAI40348	PAI1 domain-centa	c	179	11.6	55.2	17	19	AAV33181	Human Sirtuin 1		
c	107	12.2	58.1	39	24	AAI30554	PCR primer HK2 use	c	180	11.6	55.2	19	22	AAI22274	Human Sirtuin 1		
c	108	12.2	58.1	47	20	AAI201048	Probe for human P5	c	181	11.6	55.2	20	15	AAI74670	Human Sirtuin 1		
c	109	12.2	58.1	50	22	AAI29519	Human SNP of linc	c	182	11.6	55.2	20	18	AAI50901	Human Sirtuin 1		
c	110	12	57.1	12	57.1	23	20	AAI35964	PCR primer used to	c	183	11.6	55.2	20	21	AAI85006	Human Sirtuin 1
c	111	12	57.1	23	20	AAI08456	Human FasL, Fas L	c	184	11.6	55.2	20	21	AAI34998	Human Sirtuin 1		
c	112	12	57.1	23													













c 959 10.6 50.5 48 16 AAC98760  
 960 10.6 50.5 48 18 AAT93964  
 961 10.6 50.5 48 18 AAC60479  
 962 10.6 50.5 48 24 ARL56811  
 c 963 10.6 50.5 49 19 AAC49337  
 964 10.6 50.5 49 21 AAT74807  
 c 965 10.6 50.5 49 21 AAT74808  
 966 10.6 50.5 49 21 AAT74809  
 c 967 10.6 50.5 49 21 AAT74810  
 968 10.6 50.5 49 21 AAT66181  
 969 10.6 50.5 49 24 AAR47710  
 c 970 10.6 50.5 49 24 AAR49184  
 c 971 10.6 50.5 40 17 AAT2452  
 972 10.6 50.5 40 20 AAT76461  
 973 10.6 50.5 40 20 AAX26298  
 c 974 10.6 50.5 40 21 AAZ95768  
 975 10.6 50.5 40 21 AAZ95855  
 c 976 10.6 50.5 40 21 AAZ95903  
 c 977 10.6 50.5 40 21 AAZ96059  
 978 10.6 50.5 41 20 AAX19309  
 979 10.6 50.5 41 24 AAR49472  
 980 10.6 50.5 41 24 AAR49474  
 981 10.6 50.5 41 24 AAR41110  
 982 10.6 50.5 41 24 AAR05677  
 c 983 10.6 50.5 41 24 AAR05955  
 c 984 10.6 50.5 42 18 AAT48498  
 c 985 10.6 50.5 42 20 AAV65137  
 986 10.6 50.5 42 21 AAR05761  
 c 987 10.6 50.5 42 21 AAZ45172  
 c 988 10.6 50.5 42 22 AAT65564  
 989 10.6 50.5 42 22 AAR86365  
 990 10.6 50.5 42 24 AAR88131  
 991 10.6 50.5 42 24 AAR47608  
 992 10.6 50.5 42 24 AAR10945  
 c 993 10.6 50.5 43 22 AAR86366  
 c 994 10.6 50.5 43 24 AAD23708  
 c 995 10.6 50.5 44 14 AAQ50457  
 c 996 10.6 50.5 44 21 AAZ29685  
 c 997 10.6 50.5 44 22 AAT65556  
 c 998 10.6 50.5 44 22 AAT73624  
 c 999 10.6 50.5 44 22 AAT73625  
 c1000 10.6 50.5 45 17 AAT31624

## ALIGNMENTS

RESULT 1  
 ID AAC3450 standard; DNA: 21 RP.  
 XX  
 A\* AAC3450;  
 XX  
 01 JUL 2002 (first entry)  
 XX  
 IE TGF beta type II receptor antisense of haemopoietic.  
 XX  
 KW Transforming growth factor; TGF-beta type II receptor; cancer; thymoma;  
 KW stem cell tumor; multiple myeloma; melanoma; haematopoietic disease;  
 KW thrombocytopenia; gene therapy; cytostatic; haemostatic; SS.  
 XX  
 OS unidentified.  
 XX  
 PN W0200204479 A1.  
 XX  
 PD 17 JAN 2002.  
 XX  
 PF 06 JUL 2001; 2001W0 US21420.  
 XX  
 PR 06 JUL 2000; 2000US 216256P.  
 XX  
 PA (AV16 ) AV1 HEPHARMA INC.  
 XX

PI Bartelmez SL; Iversen PL;  
 DR WPI; 2002 195761Z26.  
 XX  
 PI New human stem cell composition, useful for treating various cancers,  
 c.c. ovarian cancer, melanoma, testicular cancer, lung cancer or brain  
 cancer, as well as for other non-malignant hematopoietic diseases, c.c.  
 thrombocytopenia  
 XX  
 PS Claim 5; Page 47; 5pp; English.  
 XX  
 CC The present invention relates to transforming growth factor (TGF) beta  
 blocking agent treated human stem cell compositions which are capable of  
 rapid in vivo reconstitution of the haematopoietic system of a subject.  
 CC the composition comprises a cell population enriched for human stem  
 cells, the stem cells treated ex vivo with an oncoemer antisense to  
 TGF beta, where the viability and differentiation state of the stem  
 cells is preserved in culture longer than stem cells not subjected  
 to TGF-beta antisense treatment. The human stem cell composition is  
 useful for promoting the rapid engraftment of long term repopulation  
 CC haematopoietic stem cells (LTR-HSC) following in vivo administration  
 CC and facilitate the rapid proliferation of LTR-HSC in vitro. The HSC  
 containing cell population is useful for treating various cancers,  
 CC including ovarian cancer, thymoma, germ cell tumors, multiple myeloma,  
 CC melanoma, testicular cancer, lung cancer and brain cancer as well as for  
 CC other non malignant haematopoietic diseases, c.c. thrombocytopenia.  
 CC Sequences of the invention are also used in gene therapy. The present  
 CC sequence is TGF-beta type II receptor antisense of haemopoietic.  
 XX  
 SQ Sequence 21 RP: 3 A; 10 C; 6 G; 2 T; 0 other;  
 Query Match 100.0%; Score 21; DB 24; Length 21;  
 Best Local Similarity 100.0%; Pred. No. 3.7;  
 Matches 21; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
 QY 1 GACCAATGAGAGAGGAGGAGG 21  
 DB 1 GACCAATGAGAGAGGAGGAGG 21  
 RESULT 2  
 AAX26981  
 ID AAX26981 standard; DNA: 20 RP.  
 XX  
 A\* AAX26981;  
 XX  
 26 JUN 1999 (first entry)  
 XX  
 IE PCR primer used to amplify the signal peptide of LAMP-1 protein.  
 XX  
 KW MAGE A tumour associated gene; human leucocyte antigen class II;  
 KW autologous CD4+ cells; MAGE A related diseases; cancer; melanoma;  
 KW osteosarcoma; leukemia; carcinoma; PCR primer; SS.  
 XX  
 OS Synthetic.  
 XX  
 PN W09914326 A1.  
 XX  
 PD 26 MAR 1999.  
 XX  
 PF 04 SEP 1998; 98W0 US18601.  
 XX  
 PR 12 SEP 1997; 9703 092861P.  
 XX  
 PA (100W ) 100W03 INSL CANCER RES.  
 PA (09VR ) UNIV VRIJE BROSSEL.  
 XX  
 PI Boon-Edtman J, Chaux P, Verhulst J, Herrema C,  
 PI Luiten R, Staudant V, Thielemans K, Van der Broeken P;  
 XX  
 DR WPI; 1999 244001Z26.  
 XX  
 PI Isolated peptides that bind to human leucocyte antigen class II

PT molecules

PS Example 5; Page 48; 88pp; English.

CC PCR primers AAX26980-81 were used to amplify DNA encoding the signal peptide of the LAMP-1 protein. The specification describes a MAGE-3 tumour associated gene. Peptides that bind human leukocyte antigen (HLA) class II molecules can be derived from the MAGE-3 protein. These peptides and autologous CD4+ cells that bind to a complex of MAGE-3 peptide and HLA Class II, are used to treat MAGE-3 related diseases, particularly cancers (e.g. melanoma, osteosarcoma, leukemia and various forms of carcinoma). The peptides are also used to produce specific antibodies. Detection of the peptides, e.g. in binding assays, particularly with antibodies, is used for diagnosis of such diseases.

XX Sequence 20 BP; 1 A; 12 C; 6 G; 1 T; 0 other;

Query Match 70.5%; Score 14.8; DB 20; Length 20;

Best Local Similarity 88.9%; Pred. No. 2e+03;

Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 4 CCAATGGAGGAGGAGG 20

IIIIIIII IIIIIII I

II 4 CCAATGGAGGAGGAGG 20

RESULT 4

AAA47944

ID AAA47944 standard; DNA; 20 BP.

XX AA

XX AA

XX AA

XX 18 AUG-2000 (first entry)

XX PCR primer used in the construction of pMAGE-siq.MAGE-A3.LAMP-1.

XX MAGE-A3; HLA class II; human leukocyte antigen; antibody; vaccine;

KW cancer; human; tumour; tumour associated gene product; PCR primer; ss.

XX Homo Sapiens.

XX W2000020581-A1.

XX 14-APR-2000.

XX 15-SEP-1999; 99W0-0521240.

XX 05-OCT-1998; 98US-0166448.

PA (LILW-) LUDWIG INST CANCER RES.

PA (UVVP-) UNIV VRIJE BRUSSEL.

XX Chaux P, Strodant V, Ron-Fallour T, Van der Bruggen P;

PI Schultze ES, Van Strick J, Loehe R, Thielemans K, Corbals J;

PI Hellman C;

XX WPI: 2000-317715/27.

XX New MAGE-A3 class II binding peptides, useful to diagnose and treat

PT tumours, are fragments of MAGE-A3 which bind to and are presented to T

PT lymphocytes by human leukocyte antigen class II molecules

XX Example 6; Page 46; 11pp; English.

XX The present invention relates to MAGE-A3 (tumour associated gene

CC product) human leukocyte antigen (HLA) class II-binding peptides (see

CC AAB02566-B02595, and AAB02643-B02637). These peptides are presented to T

CC cells in the context of HLA class II molecules. The peptides stimulate

CC the activity and proliferation of CD4+ T lymphocytes. The invention also

CC includes nucleotide sequences encoding MAGE-A3 peptides (see AAA37928

CC and AAA37938-A37940). The peptides and nucleotide sequences can be used

CC to create antibodies against the MAGE-A3 peptides. The antibodies,

CC peptides and nucleotide sequences can be used to create a vaccine. The

CC peptides are used to diagnose or treat a disorder characterized by

CC expression of MAGE-3, particularly cancer. The methods can also be used

CC in the diagnosis of disorders associated with MAGE-3 expression. Included

CC in the invention are other human tumour antigens (see AAB02566-B02637),

CC and PCR primers used in the course of the invention (see AAA47929-A37947

XX and AAA47941-A37942).

XX Sequence 20 BP; 1 A; 12 C; 6 G; 1 T; 0 other;

Query Match 70.5%; Score 14.8; DB 21; Length 20;

Best Local Similarity 88.9%; Pred. No. 2e+03;

Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 4 CCAATGGAGGAGGAGG 20

IIIIIIII IIIIIII I

II 4 CCAATGGAGGAGGAGG 20

RESULT 4

AACT11563/c

ID AACT11563 standard; cDNA; 50 BP.

XX AA

XX AA

XX 06-SEP-2000 (first entry)

XX Human secreted protein 5' EST, SEQ ID NO: 15648.

XX Human; 5' EST; expressed sequence tag; secreted protein; cDNA isolation;

KW gene therapy; chromosome mapping; ss.

XX Homo sapiens.

XX EP1044401-A2.

XX 06-SEP-2000.

XX 21-FEB-2000; 2000EP 0200610.

XX 26-FEB-1999; 99US-0122487.

XX (GEST ) GENSET.

XX Dumas Milne Edwards J, Duclert A, Giordano J;

XX WPI: 2000-500461/45.

XX New nucleic acid that is a 5' expressed sequence tag (5' EST) for

PT obtained cDNAs and genomic DNAs that correspond to 5' ESTs and for

PT diagnostic, forensic, gene therapy and chromosome mapping procedures -

XX Claim 1; SEQ ID 15648; 71pp + CD ROM; English.

XX The present sequence is one of a large number of 5' ESTs derived from

CC mRNAs encoding secreted proteins. No ORF has yet been conclusively

CC identified within the present sequence. The 5' ESTs were prepared from

CC total human RNAs or polyA+ RNAs derived from 40 different tissues. EST

CC sequences usually correspond mainly to the 3' untranslated region (UTR)

CC of the mRNA because they are often obtained from oligo-dT primed cDNA

CC libraries. Such ESTs are not well suited for isolating cDNA sequences

CC derived from the 5' ends of mRNAs and even in those cases where longer

CC cDNA sequences have been obtained, the full 5' UTR is rarely included.

CC 5' ESTs are derived from mRNAs with intact 5' ends and can therefore be

CC used to obtain full length cDNAs and genomic DNAs. 5' ESTs are also used

CC in diagnostic, forensic, gene therapy and chromosome mapping procedures.

CC they are used to obtain upstream regulatory sequences and to design

CC expression and secretion vectors.

XX Sequence 50 BP; 9 A; 11 C; 26 G; 4 T; 0 other;

Query Match

70.5%; Score 14.8; DB 21; Length 50;

Best Local Similarity 88.9%; Pred. No. 2e+03;





RESULT 7  
 AAX17269/c  
 ID AAX17269 standard; DNA: 46 BP.  
 XX  
 AC AAX17269;  
 XX  
 DT 06-MAY-1999 (first entry)  
 XX  
 DE Test sequence from human gene PRB3L for proline-rich protein 3L.  
 XX  
 KW Test sequence; DNA-binding molecule; screening sequence; human;  
 KW nucleic acid amplification; target; viral; ds.  
 XX  
 OS Homo. Sapiens.  
 XX  
 PN DS5866241-A.  
 XX  
 PD 09 FEB-1999.  
 XX  
 PF 07 JUN 1995; 950S-0475228.  
 XX  
 PR 20 FEB-1994; 940S-0171389.  
 PR 27 JUN-1994; 940S-0724618.  
 PR 24 DEC-1992; 920S-0996783.  
 PR 17 SEP-1993; 940S-0124946.  
 PR 07 JUN-1995; 950S-0475228.  
 XX  
 PA (GENE-) GENELABS TECHNOLOGIES INC.  
 XX  
 PI Andrews BM, Cantor CR, Edwards CA, Fry KE, Turin LM;  
 XX  
 DR WPI: 1999-152755/13.  
 XX  
 PT Determination of DNA sequence preference of a DNA-binding molecule  
 PT based on inhibition of binding of protein to oligonucleotide  
 PT sequence attached to test sequence  
 XX  
 PS Claim 3; Columns 237-238; 270pp; English.  
 XX  
 CC Sequences AAX17001 to AAX17600 represent specifically claimed target  
 CC test sequences that are used in the method of the invention of  
 CC determining the DNA sequence preference of a DNA-binding molecule. The  
 CC method comprises: (i) adding a test molecule and a DNA-binding protein to  
 CC a mixture of duplex DNA test oligonucleotides, each of the test  
 CC oligonucleotides having a test sequence adjacent to a screening sequence,  
 CC where the screening sequence binds to the DNA-binding protein with a  
 CC binding affinity that is independent of the DNA sequence of the test  
 CC sequence, and where the mixture of duplex DNA test oligonucleotides  
 CC includes several test sequences; (ii) incubating the test molecule, the  
 CC mixture of duplex DNA test oligonucleotides and the DNA-binding protein  
 CC for a time sufficient to permit binding of the test molecule to test  
 CC sequences in the duplex DNA; (iii) separating unbound test  
 CC oligonucleotides from test oligonucleotides bound to binding protein;  
 CC (iv) amplifying the unbound test oligonucleotides; (v) repeating steps  
 CC (ii) to (iv); (vi) isolating the amplified test oligonucleotides; and  
 CC (vii) sequencing the isolated test oligonucleotides. Test sequences  
 CC AAX17001-X17481 and AAX17600 correspond to promoter targets for human  
 CC genes and test sequences AAX17482-X17599 correspond to promoter targets  
 CC for viral genes.  
 XX  
 SQ Sequence 46 BP; 7 A; 14 C; 10 G; 16 T; 0 other;

Query Match 67.68; Score 14.2; DB 20; Length 46;  
 Best Local Similarity 84.28; Pred. No. 4,7e-04;  
 Matches 16; Conservative 0; Mismatches 3; Indels 0; Gaps 0;  
 QY 1 GAGGATAGGAGAGGCGGT 19  
 11 11111111111111111111  
 DB 4 GAGGATAGGAGAGGCGGT 25

RESULT 8  
 ARK82760/c  
 ID ARK82760 standard; DNA: 46 BP.  
 XX  
 AC ARK82760;  
 XX  
 DT 27 AUG-2002 (first entry)  
 XX  
 DE DNA binding molecule screening method test sequence #269.  
 XX  
 KW DNA binding molecule screening; inhibition of transcription;  
 KW infection; human immunodeficiency virus; HIV; parasite; cancer;  
 KW cardiovascular; respiratory; gastrointestinal; endocrine; metabolic;  
 KW rheumatic; immunological; haematological; neurological;  
 KW psychiatric; dermatological; ophthalmological; musculo-skeletal;  
 KW oncological disorder; ss.  
 XX  
 OS Synthesized.  
 XX  
 PN DS6484208-R1.  
 XX  
 PD 07 MAY-2002.  
 XX  
 PF 15 JUL 1999; 990S-054947.  
 XX  
 PR 20 FEB-1994; 940S-0171389.  
 PR 07 JUN-1995; 950S-0482080.  
 PR 27 JUN-1994; 940S-0724618.  
 PR 24 DEC-1992; 920S-0996783.  
 PR 17 SEP-1993; 940S-0124946.  
 XX  
 PA (GENE-) GENELABS TECHNOLOGIES INC.  
 XX  
 PI Edwards CA, Cantor CR, Andrews BM, Turin LM, Fry KE;  
 XX  
 DR WPI: 2002-442819/47.  
 XX  
 PT Decreasing transcriptional activity of genes for treating infections of  
 PT cancer, by administration of an agent that binds to two non-overlapping  
 PT regions of the gene.  
 XX  
 PS Example 15; SEQ ID No 269; 98pp; English.  
 XX  
 CC The invention relates to a method of decreasing transcriptional activity  
 CC in a duplex deoxyribonucleic acid (DNA) template (T1) comprising  
 CC contacting (T1) with a binding agent comprising at least one small duplex  
 CC DNA binding molecule (T2) coupled to at least one other small duplex-  
 CC binding molecule that binds to a non-overlapping region of target  
 CC sequence (TS). The method is useful for inhibiting transcription of a  
 CC range of disease-related genes for treating infections (by viruses,  
 CC including human immunodeficiency virus, bacteria, fungi, protozoa  
 CC and parasites), cancer, cardiovascular, respiratory, gastrointestinal,  
 CC endocrine/metabolic, rheumatic/immunological, haematological,  
 CC neurological, psychiatric, dermatological, ophthalmological,  
 CC musculo-skeletal, genetic or oncological disorders. The method provides  
 CC sequence-specific inhibition of transcription of pathological genes  
 CC without affecting transcription of cellular genes regulated by the same  
 CC transcription factor, and can be applied to regulation of any gene.  
 CC ARK82492-ARK83155 represent DNA binding molecule test sequences used in  
 CC the method of the invention.  
 XX  
 SQ Sequence 46 BP; 7 A; 14 C; 10 G; 15 T; 0 other;

Query Match 67.68; Score 14.2; DB 24; Length 46;  
 Best Local Similarity 84.28; Pred. No. 4,7e-04;  
 Matches 16; Conservative 0; Mismatches 3; Indels 0; Gaps 0;  
 QY 1 GAGGATAGGAGAGGCGGT 19  
 11 11111111111111111111  
 DB 4 GAGGATAGGAGAGGCGGT 25

RESULT 9



DR WPI: 1999-015404/27.

XX New truncated cellulase proteins, useful in detergents and for

PI producing 'stone-washed' denim

XX Disclosure: Page 63; 65pp; English.

XX The invention relates to a recombinant cellulase active protein tree of

CC proteinases of native thermophilic and alkaliphilic origin, comprising

CC the truncated sequences Cel B5, Cel B4/5, Cel E1, Cel E1/2, Cel I/2/3,

CC Cel 6, or Cel E3/B5, or a stability region from one of the defined full-

CC length sequences, or functional equivalents. Cel B5 extends from amino

CC acid A1011 to P1424 or N1425 or N1426, and Cel B4/5 extends from amino

CC acid K635 to N1426 in the sequence shown in AAY13492; Cel E1 extends

CC from amino acid Y39 to D481, Cel E1/2 extends from Y49 to G635, Cel

CC E1/2/3 extends from Y39 to G412, Cel E6 extends from amino acid V1233 to

CC K1751 and the stability region extends from amino acid E482 to G635 in

CC the sequence shown in AAY14491; Cel E3/B5 is shown in AAY14494. The new

CC enzymes are useful in laundry detergent compositions to prevent or

CC remove staining, backstaining or graying, for use on cellulose

CC materials including cotton-containing fabrics, they are especially useful

CC for preventing redeposition of colorant during stonewashing, and for

CC processing of textiles where cellulose breakdown is required. The new

CC truncated enzymes show reduced redeposition of dye compared to using

CC non-truncated cellulase compositions.

XX Sequence 28 BP; 8 A; 10 C; 4 G; 6 T; 0 other;

Query Match: 65.7%; Score 13.8; DB 20; Length 28;

Best Local Similarity 88.2%; Pred. No. 5,6e+03;

Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 2 AACCAAGGAGGCGCG 18

DB 5 AACCAAGGAGGCGCG 21

RESULT 12

AA112540

DB AA112540 standard; DNA; 29 BP.

XX AA112540;

XX 06-SEP-1996 (first entry)

XX Rat VL30 retrotransposon nucleotides 205-794 PCR primer.

XX Retrotransposon; mobile genetic element; murine; IRES; encapsidation;

KW Internal ribosome entry site; viral vector; gene therapy; expression;

KW improvement; dicistronic; polymerase chain reaction; Rattus; ss.

XX Synthetic.

XX W099-01924 A2.

XX 18-JAN-1996.

XX 05-JUL-1995; 95WO-FR00894.

XX 05-JUL-1994; 94FR-0008400.

XX (INRM) INSERM INST NAT SANIE & RECH MEDICALE.

XX Betteluz C., Barlix JL., Jacquemond S., Torrent C.

XX WPI: 1996-087674/09.

XX Isolated DNA contg. internal ribosome entry site or encapsidation

PI sequence - derived from retrotransposon, providing stable

PI expression of one or more genes, useful in gene therapy vectors

XX Example 1; Page 29; 40pp; French.

CC Three plasmid constructs were prepared in which different

CC fragments of the rat VL30 retrotransposon were inserted between

CC a neomycin resistance gene and a lacZ gene. Expression of the

CC dicistronic cassette neo-VL30-lacZ was under the control of the

CC 17 RNA polymerase promoter (for in vitro expression) or the

CC cytomegalovirus early promoter (for expression in eukaryotic

CC cells). The level of expression from both genes was determined for

CC each construct. The best results were obtained from a plasmid

CC comprising nucleotides 380-794 of rat VL30, suggesting that this

CC region includes an internal ribosome entry site (IRES) which allows

CC expression of both genes. The present sequence is that of a PCR

XX primer used for amplifying the 205-794 fragment of VL30.

XX Sequence 29 BP; 8 A; 13 C; 6 G; 2 T; 0 other;

Query Match: 65.7%; Score 13.8; DB 17; Length 29;

Best Local Similarity 88.2%; Pred. No. 5,6e+03;

Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1 GAGCAAGGAGGCGCG 17

DB 7 GAGCAAGGAGGCGCG 23

RESULT 13

AAZ212057c

DB AAZ21205 standard; DNA; 40 BP.

XX AAZ21205;

XX 22-NOV-1999 (first entry)

XX Zea mays pathogenesis-related class 1 PCR primer SEQ ID NO:26.

XX Zea mays; maize; pathogenesis-related class 1; PR-1; promoter;

KW regulation; expression; disease resistance; genetic manipulation;

KW tobacco mosaic virus; cucumber mosaic virus; Tobacco etch virus;

KW necrosis virus; maize dwarf virus; viroid; bacterial; insect;

KW nematode; fungal; PCR primer; ss.

XX Synthetic.

XX Zea mays.

XX W0994819-A1.

XX 02-SEP-1999.

XX 11-FEB-1999; 99WO-US04011.

XX 26-FEB-1998; 98US-0076100.

XX 27-MAR-1998; 98US-0079648.

XX (D10N) P1-NFER HI-BRED INT INC.

XX Crane W.

XX WPI: 1999-527621/44.

XX New promoter sequences from pathogenesis related genes of maize.

XX Example 1; Page 46; 86pp; English.

XX AAZ21190 to AAZ21190 represents the nucleotide sequences for promoters

CC isolated from a family of maize (Zea mays) genes encoding pathogenesis

CC related (PR-1) proteins. The promoters are useful for expressing

CC heterologous genes (including genes for disease resistance) in plants,

CC especially dicots, or monocots i.e. maize. The promoters are useful for

CC the genetic manipulation of plants to exhibit specific phenotypes,

CC particularly enhanced resistance to pathogen-caused disease. Pathogens

CC include viruses such as tobacco or cucumber mosaic virus, rusted

CC virus, necrosis virus, and maize dwarf virus, and viroids, bacteria,

CC insects, nematodes and fungi. The present sequence represents a PCR

CC primer used for amplifying maize PR-1 proteins used in an example from

```

cc The present invention.
xx
sq Sequence 40 BP; 7 A; 8 C; 11 G; 4 T; 0 other;

Query Match 65.7%; Score 14.8; DB 20; Length 40;
Best Local Similarity 80.0%; Prod. No. 5.6e+04;
Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 4 CCAAGGAGAGGAGGAG 20
   |||||
DB 17 CCAAGGAGAGGAGGAG 1

RESULT 14
AA024612/c
ID AA024612 standard; DNA: 43 BP.
XX
AC AA024612;
XX
DT 07 MAR 2002 (first entry)
XX
DE Canine p53 cDNA amplifying RT-PCR primer, 5' up/np53dn.
XX
KW Canine; p53 protein; tumour-associated mutation; p53-dependent cancer;
KW anti-cancer therapy; reverse transcriptase; RT; PCR primer; ss.
XX
OS Canis sp.
XX
PN D86307046 BL.
XX
PD 23 OCT 2001.
XX
PF 25-FEB 1999; 99NS 0257580.
XX
PR 28 FEB 1998; 98GB 0004178.
XX
PA (YORK ) YORKSHIRE CANCER RES.
XX
PI Milner J, Veldhoen N;
XX
WP1: 2002 043267/04.
XX
XX
XX New canine p53 nucleic acid and protein, useful for identifying
PI individual carriers of germ line p53 gene mutations, or for determining
PI the efficacy of anti cancer therapies based on p53 genetic status .
XX
PS Disclosure; Fig 1; 2opp; English.
XX
cc The invention relates to DNA encoding canine p53 protein. The p53 cDNA
cc can be used to isolate different p53 cDNA from higher vertebrate
cc organisms, to generate probes for cytogenetic screening of canine
cc tumours, to identify tumour-associated mutations of the canine p53
cc gene, to identify individual carriers of germ line p53 gene mutations
cc and determine breed disposition to p53-dependent cancers, to generate
cc tumour identified mutants for study, to study p53 dependent activities
cc in canine normal and tumour cells, to express p53 protein within in
cc vitro expression systems, to express p53 protein in prokaryotic and
cc eukaryotic in vivo expression systems, to determine the efficacy of
cc anti cancer therapies based on p53 genetic status and to generate
cc probes to assess changes in stability or expression of p53 in different
cc cell types. Canine p53 protein can be used as an antigen to generate
cc monoclonal antibodies that are directed to both conformation specific
cc epitopes and primary epitopes. The present sequence is a reverse
cc transcriptase (RT) PCR primer used to amplify canine p53 cDNA.
XX
SQ Sequence 43 BP; 4 A; 7 C; 12 G; 4 T; 7 other;

Query Match 65.7%; Score 14.8; DB 24; Length 43;
Best Local Similarity 80.0%; Prod. No. 5.6e+04;
Matches 12; Conservative 3; Mismatches 0; Indels 0; Gaps 0;

QY 4 CCAAGGAGAGGAGGAG 18
   |||||

```

```

DB 22 CCAAGGAGAGGAGGAG 18

RESULT 15
AA080214
ID AA080214 standard; DNA: 43 BP.
XX
AC AA080214;
XX
DT 02 MAR 1999 (first entry)
XX
DE Maize PTE DNA amplifying primer.
XX
KW Maize; acyl-AcP thioesterase; enzyme; oleoyl AcP thioesterase; cDE; PTE;
KW palmitoyl AcP thioesterase; transgenic plant; oil; fatty acid; promoter;
KW regulatory element; transcriptional terminator; PCR primer; ss.
XX
OS Synthetic.
OS Zea mays.
XX
PN W09850569 AZ.
XX
PD 12 NOV 1998.
XX
PF 22-AUG 1998; 98W0 0508097.
XX
PR 05 MAY 1997; 97US 0045827.
XX
PA (1980 ) 19W AG063718/US 116.
XX
PI Armstrong K, Cowen NM, Folkerts O, Guo L, Rubin Wilson R;
PI Skokut L, Young S;
XX
WP1: 1999 04742/04.
XX
PI Composition comprising a promoter regulatory element, acyl AcP
PI thioesterase coding sequence, and a terminator useful for, e.g.,
PI production of plant oil with an altered fatty acid content
XX
PS Example 3; Page 123; 1opp; English.
XX
cc The invention relates to genes encoding maize acyl AcP thioesterase
cc enzymes. The enzymes especially, oleoyl AcP thioesterase (cDE) and
cc palmitoyl AcP thioesterase (PTE) can be used to create transgenic plants
cc having altered oil profiles. The invention provides a composition
cc comprising in a 5' to 3' direction: (i) a promoter regulatory element;
cc (ii) an acyl AcP thioesterase encoding nucleic acid isolated from maize,
cc and (iii) a transcriptional terminator. The compositions and plant cell
cc of comprising the compositions can be used to produce plant oil having
cc altered levels of fatty acids. The present sequence represents a primer
cc used for amplifying the maize PTE DNA.
XX
SQ Sequence 43 BP; 8 A; 16 C; 11 G; 8 T; 0 other;

Query Match 64.8%; Score 14.6; DB 20; Length 43;
Best Local Similarity 80.0%; Prod. No. 6.8e+04;
Matches 16; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

QY 2 AAAACAGGAGAGGAGGAG 21
   |
DB 22 AAACAGGAGAGGAGGAG 41
   |||||

RESULT 16
AA058276
ID AA058276 standard; DNA: 21 BP.
XX
AC AA058276;
XX
DT 29 JAN 2001 (first entry)
XX
DE Human p50200 hybridization probe SEQ ID No:94.
XX

```

KW Human: tumour; diagnosis; neoplastic disease; neoplastic cell growth;  
 KW proliferation; tumorigenesis; identification; cancer; PCR primer;  
 KW hybridisation; probe; cytostatic; neurotropic; neuroprotective;  
 KW anti-inflammatory; immunosuppressive; immunostimulant; antianitrogenic;  
 KW leukaemia; lymphoid malignancy; neuronal disorder; glial disorder;  
 KW astrocytal disorder; hypothalamic disorder; glandular disorder;  
 KW macrophagal disorder; epithelial disorder; stromal disorder;  
 KW blast coelic disorder; inflammatory disorder; angiogenic;  
 KW immunologic disorder; ss.  
 XX  
 KW Homo sapiens.  
 OS  
 XX  
 PN W0200054755 A2.  
 XX  
 PD 14-SEP-2000.  
 XX  
 PF 04-JAN-2000; 2000W0-US00476.  
 XX  
 PR 08-MAR-1999; 99W0-US05028.  
 PR 02-JUN-1999; 99W0-US12452.  
 PR 24-JUN-1999; 99W0-US141047.  
 PR 07-JUL-1999; 99W0-US141048.  
 PR 26-JUL-1999; 99W0-US145698.  
 PR 30-NOV-1999; 99W0-US28413.  
 PR 20-DEC-1999; 99W0-US40911.  
 PR 05-JAN-2000; 2000W0-US00219.  
 XX  
 PA (GENE) GENENTECH INC.  
 XX  
 PI Ashkenazi AJ, Baker KP, Goddard A, Gurney AL, Hillan KJ, Roy MA;  
 PI Watanabe CK, Wood WI;  
 XX  
 DR WPI: 2000-572270/54.  
 XX  
 PT Thirty pro polynucleotides encoding pro polypeptides, useful in the  
 PT treatment, diagnosis and prevention of cancer.  
 XX  
 PS Example 23; Page 133; 286pp; English.  
 XX  
 CC The present invention describes an isolated antibody that binds to  
 CC one of the human pro proteins designated PRO212, PRO290, PRO341, PRO535,  
 CC PRO619, PRO717, PRO809, PRO830, PRO848, PRO943, PRO1005, PRO1009,  
 CC PRO1025, PRO1030, PRO1097, PRO1107, PRO1111, PRO1153, PRO1182, PRO1184,  
 CC PRO1287, PRO1289, PRO139, PRO134, PRO1417, PRO1710, PRO2094,  
 CC PRO2145 or PRO2198. Pro antagonists can be used to inhibit tumour cell  
 CC growth. The pro polypeptides and nucleotides are useful in the  
 CC treatment, diagnosis and prevention of cancer. The antibodies and other  
 CC anti-tumour compounds may be used to treat various conditions, including  
 CC those characterised by overexpression and/or activation of the amplified  
 CC pro genes. Exemplary conditions or disorders to be treated with such  
 CC antibodies and other compounds include benign or malignant tumours  
 CC (e.g., renal, liver, kidney, bladder, breast, gastric, ovarian,  
 CC colorectal, prostate, pancreatic, lung, colon, thyroid, hepatic  
 CC carcinomas, sarcomas, glioblastomas, and various head and neck tumours),  
 CC leukemias and lymphoid malignancies, other disorders such as neuronal,  
 CC glial, astrocytal, hypothalamic and other glandular, macrophagal,  
 CC epithelial, stromal and blastocoele disorders, and inflammatory,  
 CC angiogenic and immunologic disorders. AAC58242 to AAC58466 represent PCR  
 CC primers and hybridisation probes used in the isolation of the human pro  
 CC sequences. AAC58467 to AAC58496 and AAC24057 to AAC24089 represent human  
 CC pro polynucleotides and protein sequences given in the exemplification of  
 CC the present invention.  
 XX  
 SQ Sequence 21 BP; 5 A; 11 C; 3 G; 2 T; 0 other;

Query Match 63.8%; Score 14.4; DB 21; Length 21;  
 Best local Similarity 94.3%; Pred. No. 8.4e+04;  
 Matches 14; Conservative 0; Mismatches 1; Indels 0; Gaps 0;  
 QY 2 AATGACGAGGTC 16  
 Db 4 AATGACGAGGTC 17

## RESULT 17

AAF44389  
 ID AAF44389 Standard; DNA; 21 BP.

XX AAF44389;

AC AAF44389;

XX 02 APR-2001 (first entry)

XX Human; Pro-290 hybridisation probe SEQ ID No:428.

XX Human; secreted and transmembrane protein; Pro; cytostatic;

KW cell death; cancer; chromosomal mapping; gene mapping; tissue typing;

KW diagnostic assay; PCR primer; hybridisation; probe; ss.

XX Homo sapiens.

OS W0200074454 A1.

XX 07-DEC-2000.

XX 10-MAR-2000; 2000W0-US00439.

XX 02-JUN-1999; 99W0-US12452.

PR 24-JUN-1999; 99W0-US141037.

PR 07-JUL-1999; 99W0-US141048.

PR 20-JUL-1999; 99W0-US144758.

PR 26-JUL-1999; 99W0-US145698.

PR 28-JUL-1999; 99W0-US146222.

PR 17-AUG-1999; 99W0-US149396.

PR 15-SEP-1999; 99W0-US21090.

PR 15-SEP-1999; 99W0-US21547.

PR 08-OCT-1999; 99W0-US158663.

PR 30-NOV-1999; 99W0-US28313.

PR 01-DEC-1999; 99W0-US28301.

PR 16-DEC-1999; 99W0-US30095.

PR 20-DEC-1999; 99W0-US30911.

PR 05-JAN-2000; 2000W0-US00219.

PR 06-JAN-2000; 2000W0-US00476.

PR 11-FEB-2000; 2000W0-US04565.

PR 18-FEB-2000; 2000W0-US04341.

PR 22-FEB-2000; 2000W0-US04414.

PR 24-FEB-2000; 2000W0-US04914.

PR 24-FEB-2000; 2000W0-US05004.

PR 02-MAR-2000; 2000W0-US05841.

PR 15-MAR-2000; 2000W0-US06884.

PR 20-MAR-2000; 2000W0-US07377.

XX (GENE) GENENTECH INC.

XX Ashkenazi AJ, Baker KP, Botstein D, Desnoyers L, Eaton D;  
 XX Ferrara N, Ford S, Gerber H, Gottlieb ME, Goddard A, Godowski P;  
 XX Gimaldi CJ, Gurney AL, Kijavich JJ, Napier MA, Pan L, Peral N;  
 XX Roy MA, Stewart JA, Tamas D, Watanabe CK, Williams PM, Wood WI;  
 XX Zhang Z;

XX WPI: 2001-042160/04.

XX Pro polynucleotides used to produce polypeptides used to target  
 XX bioactive molecules such as toxins, radiolabels or antibodies, to  
 XX specific cells, to cause targeted cell death.

XX Example 17; Page 540; 935pp; English.

XX The present invention describes human secreted and transmembrane pro  
 XX proteins. The pro proteins have cytostatic activity. The pro proteins  
 XX can be used for targeted delivery of bioactive molecules, such as  
 XX toxins, radiolabels or antibodies, that cause cell death. Pro nucleic  
 XX acid sequences, and their fragments, can be used as hybridisation probes. In  
 XX chromosomal and gene mapping, and in the generation of anti-sense RNA  
 XX and DNA. They may also be used to produce transgenic animals which are  
 XX used to develop and screen therapeutically useful reagents. The pro  
 XX nucleotide and protein sequence can be used for tissue typing and in

cc Treating cancer. Anti-pro antibodies can be used in diagnostic assays.  
 cc AAF44270 to AAF44470 represent PCR primers and hybridisation probes used  
 cc in the isolation of human pro sequences. AAF44067 to AAF44269 and  
 cc AAF65154 to AAF65400 represent human pro polymorphisms and protein  
 cc sequences given in the exemplification of the present invention.

XX Sequence 21 BP; 5 A; 11 C; 3 G; 2 T; 0 other;

Query Match 63.8%; Score 13.4; DB 22; Length 21;

Best Local Similarity 93.4%; Pred. No. 8.4e+04; Mismatches 0; Gaps 0;

cc 2 ACCATGCGAGGCGC 16  
 111 1111111111  
 cc 3 ACCAATGCGAGGCGC 17

RESULT 18

AA550409  
 ID AAF50409 standard; DNA: 22 BP;

cc AAA50409;

cc 20 NOV-2000 (first entry)

cc Human TNF receptor like protein TR11 cDNA 5' PCR primer.

cc TR11; human; tumour necrosis factor receptor like protein;

cc PCR primer; SS.

cc Homo sapiens.

cc W6200050459 A1.

cc 31 AUG 2000.

cc 24 FEB-2000; 2000W6 US04572.

cc 24 FEB-1999; 99US-0121648.

cc 14 MAY-1999; 99US-0134172.

cc 16 JUL-1999; 99US-0144076.

cc (HUMA ) HUMAN GENOME SET 1NC.

cc Ruben SM; Ni J;

cc W61; 2000 5/2072/534.

cc Human tumor necrosis factor receptor like proteins useful for  
 cc diagnosis, prevention and treatment of disease states associated with  
 cc aberrant cell survival such as autoimmune disease and rheumatoid  
 cc arthritis

cc Example 1; Page 171; 27pp; English.

cc The present sequence is that of a 5' PCR primer comprising an NcoI  
 cc site followed by 14 nucleotides complementary to the N-terminal  
 cc coding sequence of the extracellular domain of TR11 (see AAF5079). A  
 cc novel human tumor necrosis factor receptor like protein, the  
 cc amplified TR11 cDNA was cloned into vector pQE60 for expression of  
 cc mature TR11 in *Escherichia coli*. The invention provides TR11,  
 cc TR11SV1 and TR11SV2 nucleic acids (see AAF50404-06) and proteins  
 cc (see AAF50879-81), vectors, host cells and recombinant methods for  
 cc their production, a method for screening for antagonists and  
 cc antagonists, and methods for using the polynucleotides,  
 cc polypeptides, antibodies, agonists and antagonists in the  
 cc treatment, diagnosis and prevention of disease states associated  
 cc with aberrant cell survival, immunodeficiency and autoimmune  
 cc disease.

cc Sequence 22 BP; 3 A; 12 C; 6 G; 1 T; 0 other;

cc Query Match 63.8%; Score 13.4; DB 21; Length 22;

Best Local Similarity 93.4%; Pred. No. 8.4e+04;

Matches 14; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

cc 3 CCAATGCGAGGCGC 17  
 111111111111  
 cc 3 CCAATGCGAGGCGC 17

RESULT 19

AAZ47767  
 ID AAZ47767 standard; cDNA: 22 BP;

cc AAZ47767;

cc 01 FEB-2000 (first entry)

cc PCR primer for amplification of TR11 receptor extracellular domain.

cc Tumour necrosis factor receptor like protein; TR11; TR11SV1; TR11SV2;

cc G11R; growth; differentiation; cell death; immune deficiency disorder;

cc fibrosis; syndrome; HIV; Severe Wiskott Aldrich disorder; abnormal;

cc Still Man syndrome; arthritis; multiple sclerosis; diabetes; PCR primer;

cc Alzheimer's disease; Parkinson's disease; Huntington's disease; SS;

cc inflammatory condition.

cc Synthesis.

cc Homo sapiens.

cc W6920768 A1.

cc 29 APR 1999.

cc 21 OCT 1998; 98W6 US22085.

cc 21 OCT 1997; 97US 0063212.

cc (HUMA ) HUMAN GENOME SET 1NC.

cc Ni J; Ruben SM;

cc W61; 2000 061922/05.

cc New tumor necrosis factor receptor like polypeptides used to, e.g.,  
 cc treat Biquaque syndrome.

cc Example 1; Page 79; 16pp; English.

cc PCR primers AAZ47767/78/79 are used to amplify the human tumor  
 cc necrosis factor receptor like protein (TR11 receptor: AAZ47767)  
 cc extracellular domain nucleic acid sequence. The invention relates to TR11  
 cc and two splice variants TR11SV1 and TR11SV2. The nucleotide sequences  
 cc were determined by sequencing cloned cDNAs AAZ47765, 78/79. The TR11  
 cc receptor and its splice variants show homology to the murine  
 cc glucocorticoid induced tumor necrosis factor receptor family related  
 cc gene (G11R). TR11, TR11SV1 and TR11SV2 polypeptides may be involved in  
 cc the regulation of cell type specific receptor mediated cell growth,  
 cc differentiation, and ultimately, cell death. They can be used for  
 cc screening for agonists/antagonists, the polypeptides, agonists or  
 cc antagonists can be used for treating a disease state associated with  
 cc aberrant cell survival. They can be used for treating immune deficiency  
 cc disorders, Biquaque syndrome, HIV infection, severe combined  
 cc immunodeficiency (SCID), Wiskott Aldrich disorder, blood coagulation  
 cc disorders, blood platelet disorders or wounds resulting from trauma or  
 cc surgery. They can also be used to treat heart attacks, strokes, Addison's  
 cc disease, hemolytic anaemia, rheumatoid arthritis, Goodpasture's syndrome,  
 cc Grave's disease, multiple sclerosis, myasthenia gravis, Still Man  
 cc syndrome, systemic lupus erythematosus, Guillain Barre syndrome, insulin  
 cc dependent diabetes mellitus or autoimmune inflammatory eye disease,  
 cc anaphylaxis, hypersensitivity to an antigenic molecule, organ rejection  
 cc or graft versus host disease, inflammatory conditions,  
 cc ischaemia reperfusion injury, complement mediated hyperacute rejection,  
 cc nephritis, cytokine or chemokine induced lung injury, inflammatory bowel  
 cc disease, Crohn's disease, hyperproliferative disorders, or infections.

CC They can also be used to repair, replace, or protect tissue damaged by  
 CC congenital defects, trauma, age, disease, surgery, including cosmetic  
 CC plastic surgery, fibrosis, reperfusion injury, peripheral nerve injuries,  
 CC neuropathies, and central nervous system disease (e.g. Alzheimer's  
 CC disease, Parkinson's disease, Huntington's disease, amyotrophic lateral  
 CC sclerosis, and Shy-Drager syndrome). The products can also be used for  
 CC detection, diagnosis and prognosis.

XX Sequence 22 BP; 5 A; 12 C; 6 G; 1 T; 0 other;

Query Match 63.8%; Score 13.4; DB 21; Length 22;  
 Best Local Similarity 94.8%; Pred. No. 14-04;  
 Matches 14; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 4 CCAAGGAGAGGCGG 17

DB 4 CCAAGGAGAGGCGG 17

RESULT 20

AAV80220

ID AAV80220 standard; DNA: 19 BP.

AC AAV80220;

XX AAV80220;

DI 02 MAR 1999 (first entry)

DE Maize PTE gene amplifying primer.

KW Maize: acyl-ACP thioesterase; enzyme: oleoyl-ACP thioesterase; OTE; PTE;  
 KW palmitoyl-ACP thioesterase; transgenic plant; oil; fatty acid; promoter;  
 KW regulatory element; transcriptional terminator; PCR primer: ss.

OS Synthetic.

QS Zea mays.

XX W09850569-A2.

PN W09850569-A2.

PD 12 NOV 1998.

XX 22 APR 1998; 98W0-0508097.

XX 05 MAY 1997; 97US-0045827.

XX (D6W) DOW AGRSCIENCES LLC.

PA Armstrong K., Cohen NM, Folkerts O., Guo L., Rubin-Wilson B;

PI Skokut L., Young S;

XX WPI: 1999-034732/04.

XX Composition comprising a promoter regulatory element, acyl-ACP  
 PT thioesterase coding sequence, and a terminator - useful for, e.g.,  
 PT production of plant oil with an altered fatty acid content.

XX Example 7: Page 132; 179pp; English.

XX The invention relates to genes encoding maize acyl-ACP thioesterase  
 CC enzymes. The enzymes especially, oleoyl ACP thioesterase (OTE) and  
 CC palmitoyl-ACP thioesterase (PTE) can be used to create transgenic plants  
 CC having altered oil profiles. The invention provides a composition  
 CC comprising in a 5' to 3' direction: (i) a promoter regulatory element;  
 CC (ii) an acyl-ACP thioesterase encoding nucleic acid isolated from maize,  
 CC and (iii) a transcriptional terminator. The compositions and plant cell  
 CC of comprising the compositions can be used to produce plant oil having  
 CC altered levels of fatty acids. The present sequence represents a primer  
 CC used for amplifying the maize PTE gene.

XX Sequence 19 BP; 2 A; 10 C; 4 G; 3 T; 0 other;

Query Match

Best Local Similarity 62.9%; Score 13.2; DB 20; Length 19;

Matches 15; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 4 CCAAGGAGAGGCGG 21

DB 4 CCAAGGAGAGGCGG 18

RESULT 21

AAV7994/0

ID AAV7994 standard; DNA: 24 BP.

XX AAV7994;

XX AAV7994;

DI 26 JAN 2001 (first entry)

XX B. subtilis StrA-B gene A domain PCR primer SEQ ID No: 35.

XX NIRS; non-ribosomal peptide synthetase; adenylation domain; A domain;  
 KW PCR primer; antibiotic; immunosuppressant; cytostatic; antiviral;  
 KW antihelminthic; fungicidal; StrA-B gene; ss.

XX Bacillus subtilis.

XX W020052152-A1.

XX 08 SEP 2000.

XX 28 FEB 2000; 2000W0 EP01652.

XX 03 MAR 1999; 99EP-1009146.

XX (MARA/) MAPAHFEL M A.

XX (STAV/) STACHELBAUS T.

XX (MONT/) MONT H.

XX (KONZ/) KONZ D.

XX Marahel MA, Stachelhaus T, Montz H, Konz D;

XX WPI: 2000-572182/54.

XX Non-ribosomal synthesis of peptides, e.g. antibiotics or  
 PT immunosuppressants, using non-ribosomal peptide synthase with targeted  
 PT modifications to adenylation domains -  
 XX Example 5: Page 43; 52pp; German.

XX This invention describes a novel method for the targeted non-ribosomal  
 CC synthesis of peptides (I) of required structure, comprising altering one  
 CC or more A (adenylation) domain-encoding DNA sequents (II) that encodes a  
 CC non-ribosomal peptide synthetase so that the expression product of the  
 CC altered (II) can produce (I). is new. Alterations in the A-domains are  
 CC made according to a non-ribosomal code reproduced in the specification.

CC The method is used to synthesize (I) with antibiotic, immunosuppressant,  
 CC cytostatic, antiviral, antihelminthic, fungicidal or surface-active  
 CC properties, and to alter specificity and/or activity of known  
 CC biologically active compounds, e.g. to improve their solubility by  
 CC replacing hydrophobic amino acids with hydrophilic ones, or vice versa.  
 CC AAV7960-A97995 represent PCR primers used to illustrate the method of  
 CC the invention.

XX Sequence 24 BP; 7 A; 4 C; 8 G; 4 T; 0 other;

Query Match

Best Local Similarity 62.9%; Score 13.2; DB 21; Length 24;

Matches 15; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

QY 4 CCAAGGAGAGGCGG 21

DB 4 CCAAGGAGAGGCGG 6

RESULT 22

AA145014

ID AA145014 standard; DNA: 25 BP.

XX AAI35014;  
 XX 16-OCT-1996 (first entry)  
 DE TIMP-1/fibronectin chimERIC protein construction primer.  
 XX  
 KW TIMP: tissue inhibitor of metalloproteinase; basal laminar breakdown;  
 KW polymerase chain reaction; PCR; primer; chimera; therapy; metastasis;  
 KW ECM; extracellular matrix; targeting; ss.  
 XX  
 OS Synthetic.  
 XX  
 FN JF08140677 A.  
 XX  
 PD 04-JUN-1996.  
 XX  
 PF 28-JAN-1994; 94JP-0008248.  
 XX  
 PR 28-JAN 1994; 94JP-0008248.  
 XX  
 PA (KAGAKU) KAGAKU GIKUTSUGO CHIRIKAN KANBO.  
 XX  
 DE WPI: 1996 316313/32.  
 XX  
 XX chimERIC protein comprising heterologous protein inserted into  
 PT fibronectin - can be used to target proteins to the extracellular  
 PT matrix  
 XX  
 XX Example 1: Page 4; 7pp; Japanese.  
 XX  
 XX AAI35014: 135021 are PCR primers used in the amplification and  
 CC construction of parts of vectors which encode a chimERIC protein  
 CC which comprises fibronectin and TIMP-1 (tissue inhibitor of  
 CC metalloproteinases-1). The protein is useful to target TIMP-1 to the  
 CC extracellular matrix (ECM), when it may be needed there e.g. to  
 CC prevent metastasis of cancerous cells; other therapeutic proteins may  
 CC be used instead of TIMP-1 e.g. protein A immunoglobulin G binding  
 CC region.  
 XX  
 XX Sequence 25 BP; 6 A; 9 C; 7 G; 3 T; 0 other;  
 SQ  
 Query Match 62.9K; Score 13.2; DB 17; Length 25;  
 Best Local Similarity 83.4K; Pred. No. 1004;  
 Matches 15; Conservative 0; Mismatches 3; Indels 0; Gaps 0;  
 QY 1 GAGGCAAGGAGAGGCGG 18  
 111111111111111111  
 DB 1 GAGGCAAGGAGAGGCGG 18  
 111111111111111111  
 RESULT 24  
 AAQ58543  
 ID AAQ58543 standard; DNA: 27 BP.  
 XX  
 AC AAQ58543;  
 XX  
 XX 21-SEP-1994 (first entry)  
 DE p55 mouse Nuc protein N-terminal primer.  
 XX  
 KW Nuc protein; nucleobinding; antibody; autoimmune disease;  
 KW augmenting factor; DNA binding; p55; primer; PCR; protein;  
 KW polymerase chain reaction; ss.  
 XX  
 OS Synthetic.  
 XX  
 FN JF06025292 A.  
 XX  
 PD 01-FEB-1994.  
 XX  
 DE 30-OCT-1991; 94JP-049406.  
 XX

PR 31-OCT-1990; 96JP-0294055.  
 PR 26-NOV-1990; 96JP-0324888.  
 XX  
 PA (GAKU) GAKUEN F.  
 PA (BRIK) BIRISU TAISSU CHEM INC.  
 PA (YOSH) YOSHIYUKI KANAI CHE.  
 XX  
 DE WPI: 1994 077475/10.  
 XX  
 XX Anti-DNA and antibody produ. augmenting factor and antibodies to  
 PT it, useful for diagnosis and treatment of autoimmune disease  
 XX  
 PS Disclosure; Page 7; 29pp; Japanese.  
 XX  
 CC Nuc protein binds DNA and augments anti-DNA and antibody produ. The  
 CC protein is from human or mouse tissue or cells, esp. lymphocytes.  
 CC Anti-nuc protein and antibodies may be used to treat diseases involving  
 CC produ. of large amt.s. of DNA binding protein, e.g. autoimmune  
 CC disease.  
 XX  
 XX Sequence 27 BP; 3 A; 10 C; 10 G; 4 T; 0 other;  
 SQ  
 Query Match 62.9K; Score 13.2; DB 15; Length 27;  
 Best Local Similarity 83.4K; Pred. No. 1004;  
 Matches 15; Conservative 0; Mismatches 3; Indels 0; Gaps 0;  
 QY 4 CCAATGAGGAGGCGG 21  
 111111111111111111  
 DB 5 CCAATGAGGAGGCGG 22  
 111111111111111111  
 RESULT 24  
 AAV072643  
 ID AAV07264 standard; DNA: 27 BP.  
 XX  
 AC AAV07264;  
 XX  
 XX 28-SEP-1998 (first entry)  
 DE VA RNA3 reverse primer 4006E.  
 XX  
 KW Adenovirus 3; Ad5; vector; gene therapy; DNA polymerase; PCR;  
 KW primer; VA RNA3; ss.  
 XX  
 OS Synthetic.  
 OS Mastadenovirus 3.  
 XX  
 PN W0981778 A1.  
 XX  
 PD 30-APR-1998.  
 XX  
 PF 23-OCT-1997; 97WO-0519341.  
 XX  
 PR 23-OCT-1996; 96US-075609.  
 XX  
 XX (UNM) UNIV MICHIGAN.  
 XX  
 PA Ananthan A, Chamberlain JS, Bartigan CC (inventor);  
 PI Bausor MA, Kumar Srinath;  
 XX  
 DE WPI: 1998 261485/23.  
 XX  
 XX New adenoviral recombinant plasmid(s) comprise sequences provided  
 PT for expression of large foreign DNA fragments, used for, e.g., gene  
 PT therapy of genetic disease(s)  
 XX  
 XX Example 1a; Page 44; 13pp; English.  
 PS  
 PS Reverse primer 4006E contains sequences complementary to  
 CC nucleotides 1109-11107 of pBBE1 (see AAV07264), an E1-deleted  
 CC adenovirus (Ad) genome, and also contains a 5' Rsp6I site. It was  
 CC used with forward primer 4005E (see AAV07264), which is complementary  
 CC to nucleotides 12551-12571 of pBBE1, in the PCR amplification of a























```

977 10.2 48.6 41 4 US-09 000 062-12 Sequence 12, Appl
c 978 10.2 48.6 41 4 US-09 389-705-1 Sequence 1, Appl
979 10.2 48.6 41 4 US-08-962-281-18 Sequence 18, Appl
980 10.2 48.6 41 4 US-08-962-281-25 Sequence 25, Appl
c 981 10.2 48.6 41 5 PCT-US94-000666-1 Sequence 1, Appl
c 982 10.2 48.6 43 3 US-08-874-825-45 Sequence 45, Appl
c 983 10.2 48.6 43 3 US-08-663-824-45 Sequence 45, Appl
984 10.2 48.6 43 4 US-08-542-634-29 Sequence 29, Appl
c 985 10.2 48.6 43 4 US-08-960-190A-2 Sequence 2, Appl
c 986 10.2 48.6 43 4 US-09-025-769B-424 Sequence 424, App
987 10.2 48.6 43 4 US-09-385-143-4 Sequence 4, Appl
c 988 10.2 48.6 43 4 US-09-231-303-45 Sequence 45, Appl
989 10.2 48.6 43 5 PCT-US95-13703-29 Sequence 29, Appl
c 990 10.2 48.6 44 2 US-08-596-387B-40 Sequence 40, Appl
c 991 10.2 48.6 44 4 US-09-067-615-40 Sequence 40, Appl
c 992 10.2 48.6 44 5 PCT-US95-09816A-40 Sequence 40, Appl
c 993 10.2 48.6 45 2 US-08-687-355A-23 Sequence 23, Appl
c 994 10.2 48.6 45 4 US-08-957-001B-10 Sequence 10, Appl
c 995 10.2 48.6 45 4 US-09-496-301-10 Sequence 10, Appl
c 996 10.2 48.6 45 4 US-09-199-637A-123 Sequence 123, App
c 997 10.2 48.6 45 4 US-09-407-367-23 Sequence 23, Appl
c 998 10.2 48.6 46 3 US-08-875-509-4 Sequence 4, Appl
c 999 10.2 48.6 46 4 US-09-383-143-5 Sequence 5, Appl
1000 10.2 48.6 47 4 US-08-869-380-7 Sequence 7, Appl

```

## ALIGNMENTS

```

RESULT 1
US-09 166 448 19
: Sequence 19, Application US/09/166448
: Patent No. 6,291,430
: GENERAL INFORMATION:
: APPLICANT: Chaux, Pascal
: APPLICANT: Vantomme, Valrie
: APPLICANT: Stroobant, Vincent
: APPLICANT: Boon-Fallieur, Thierry
: APPLICANT: van der Bruggen, Pierre
: APPLICANT: Thielemans, Kris
: APPLICANT: Corbals, Jurgen
: TITLE OF INVENTION: MAGE 3 PEPTIDES PRESENTED BY HLA CLASS II MOLECULES
: FILE REFERENCE: 10461/7052
: CURRENT APPLICATION NUMBER: US/09/166,448
: CURRENT FILING DATE: 1998 10-05
: NUMBER OF SEQ ID NOS: 81
: SOFTWARE: FastSeq for Windows Version 3.0
: SEQ ID NO 19
: LENGTH: 20
: TYPE: DNA
: ORGANISM: Homo sapiens
US-09 166 448 19

```

```

Query Match 70.58; Score 14.9; DB 4; Length 20;
Best Local Similarity 88.9%; Prod. No. 3,96002;
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 3 CCAATGGAGGCGGCGG 20
IIIIII IIIIIII 20
Ib 3 CCAATGGAGGCGGCGG 20

```

```

RESULT 2
US-09 697 884 19
: Sequence 19, Application US/09/697884
: Patent No. 6,426,217
: GENERAL INFORMATION:
: APPLICANT: Chaux, Pascal
: APPLICANT: Vantomme, Valrie
: APPLICANT: Stroobant, Vincent
: APPLICANT: Boon-Fallieur, Thierry
: APPLICANT: van der Bruggen, Pierre
: APPLICANT: Thielemans, Kris

```

```

: APPLICANT: Corbals, Jurgen
: TITLE OF INVENTION: MAGE 3 PEPTIDES PRESENTED BY HLA CLASS II MOLECULES
: FILE REFERENCE: 10461/7052
: CURRENT APPLICATION NUMBER: US/09/697,884
: CURRENT FILING DATE: 2000 10-27
: PRIOR APPLICATION NUMBER: 09/166,448
: PRIOR FILING DATE: 1998 10-05
: NUMBER OF SEQ ID NOS: 81
: SOFTWARE: FastSeq for Windows Version 3.0
: SEQ ID NO 19
: LENGTH: 20
: TYPE: DNA
: ORGANISM: Homo sapiens
US-09 697 884 19

Query Match 70.58; Score 14.9; DB 4; Length 20;
Best Local Similarity 88.9%; Prod. No. 3,96002;
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 3 CCAATGGAGGCGGCGG 20
IIIIII IIIIIII 20
Ib 3 CCAATGGAGGCGGCGG 20

RESULT 3
US-08 171 489 269/4
: Sequence 269, Application US/08/171489
: Patent No. 6,760,414
: GENERAL INFORMATION:
: APPLICANT: Edwards, Cynthia A.
: APPLICANT: Cantor, Charles R.
: APPLICANT: Andrews, Beth M.
: APPLICANT: Turin, Lisa M.
: APPLICANT: Foy, Kirk E.
: TITLE OF INVENTION: Sequence Directed DNA Binding
: TITLE OF INVENTION: Molecules, Compositions and Methods
: NUMBER OF SEQUENCES: 641
: CORRESPONDENCE ADDRESS:
: ADDRESSEE: Genetabs Technologies, Inc.
: STREET: 605 Bransford Drive
: CITY: Redwood City
: STATE: CA
: COUNTRY: USA
: ZIP: 94063
: COMPUTER READABLE FORM:
: MEDIUM TYPE: Floppy disk
: COMPUTER: IBM PC compatible
: OPERATING SYSTEM: PC DOS/MS DOS
: SOFTWARE: FastSeq Release #1.0, Version #1.25
: CURRENT APPLICATION DATA:
: APPLICATION NUMBER: US/08/171,489
: FILING DATE:
: CLASSIFICATION: 3.05
: PRIOR APPLICATION DATA:
: APPLICATION NUMBER: US 08/124,946
: FILING DATE: 17 SEP 1993
: PRIOR APPLICATION DATA:
: APPLICATION NUMBER: US 07/996,784
: FILING DATE: 25 JAN 1992
: PRIOR APPLICATION DATA:
: APPLICATION NUMBER: US 07/124,618
: FILING DATE: 27 JUN 1991
: PRIOR APPLICATION DATA:
: APPLICATION NUMBER: US 08/081,070
: FILING DATE: 22 JUN 1993
: ATTORNEY/AGENT INFORMATION:
: NAME: Fabian, Gary R.
: REGISTRATION NUMBER: 33,875
: REFERENCE/INVENT NUMBER: 4400 0176/0194
: TELECOMMUNICATION INFORMATION:
: TELEPHONE: (415) 424-0880
: TELEFAX: (415) 424-0960
: INFORMATION FOR SEQ ID NO: 269;

```

SEQUENCE CHARACTERISTICS:  
LENGTH: 46 base pairs  
TYPE: nucleic acid  
STRANDEDNESS: double  
TOPOLOGY: linear  
MOLECULE TYPE: DNA (genomic)  
HYPOTHEICAL: NO  
ORIGINAL SOURCE:  
INDIVIDUAL ISOLATE: Human gene PRB3L for proline rich  
INDIVIDUAL ISOLATE: protein G1  
US-08-171-489-269

Query Match 67.6%; Score 14.2; DB 1; Length 46;  
Best Local Similarity 84.2%; Prod. No. 7002;  
Matches 16; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 1 GAACTATGAGAGAGAGCT 19  
DB 4 GAACTATGAGAGAGCT 25  
RESULT 4  
US-08-124-936-269/c  
Sequence 269, Application US/0812396,  
Patent No. 5726014  
GENERAL INFORMATION:  
APPLICANT: Edwards, Cynthia A.  
APPLICANT: Cantor, Charles R.  
APPLICANT: Andrews, Beth M.  
APPLICANT: Turin, Lisa M.  
TITLE OF INVENTION: Screening Assay for the Detection of  
NUMBER OF SEQUENCES: 640  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Genelabs Technologies, Inc.  
STREET: 505 Penobscot Drive  
CITY: Redwood City  
STATE: CA  
COUNTRY: USA  
ZIP: 94063  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Patent In Release #1.0, Version #1.25  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/124,936  
FILING DATE: 27-JUN-1991  
CLASSIFICATION: 435  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 07/996,783  
FILING DATE: 23-DEC-1992  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 07/723,618  
FILING DATE: 27-JUN-1991  
ATTORNEY/AGENT INFORMATION:  
NAME: Fabian, Gary R.  
REGISTRATION NUMBER: 33,875  
REFERENCE/DOCKET NUMBER: 4600-0075, 42/G19P2  
TELEPHONE: (415) 324-0880  
TELEFAX: (415) 324-0960  
INFORMATION FOR SEQ ID NO: 269:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 46 base pairs  
TYPE: nucleic acid  
STRANDEDNESS: double  
TOPOLOGY: linear  
MOLECULE TYPE: DNA (genomic)  
HYPOTHEICAL: NO  
ORIGINAL SOURCE:  
INDIVIDUAL ISOLATE: Human gene PRB3L for proline-rich  
INDIVIDUAL ISOLATE: protein G1

US-08-124-936-269  
Query Match 67.6%; Score 14.2; DB 1; Length 46;  
Best Local Similarity 84.2%; Prod. No. 7002;  
Matches 16; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 1 GAACTATGAGAGAGAGCT 19  
DB 4 GAACTATGAGAGAGCT 25  
RESULT 5  
US-08-475-228A-269/c  
Sequence 269, Application US/08475228A,  
Patent No. 5869241  
GENERAL INFORMATION:  
APPLICANT: Edwards, Cynthia A.  
APPLICANT: Cantor, Charles R.  
APPLICANT: Andrews, Beth M.  
APPLICANT: Turin, Lisa M.  
APPLICANT: Fiv, Kirk E.  
TITLE OF INVENTION: Sequence-Directed DNA Binding  
NUMBER OF SEQUENCES: 664  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Genelabs Technologies, Inc.  
STREET: 505 Penobscot Drive  
CITY: Redwood City  
STATE: CA  
COUNTRY: USA  
ZIP: 94063  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Patent In Release #1.0, Version #1.25  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/475,228A  
FILING DATE: 06-JUN-1995  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 08/124,936  
FILING DATE: 17-SEP-1993  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 07/996,783  
FILING DATE: 23-DEC-1992  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 07/723,618  
FILING DATE: 27-JUN-1991  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 08/081,070  
FILING DATE: 22-JUN-1993  
ATTORNEY/AGENT INFORMATION:  
NAME: Stratford, Carol A.  
REGISTRATION NUMBER: 34,444  
REFERENCE/DOCKET NUMBER: 4600-0175, 21/G19P402  
TELEPHONE: (415) 324-0880  
TELEFAX: (415) 324-0960  
INFORMATION FOR SEQ ID NO: 269:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 46 base pairs  
TYPE: nucleic acid  
STRANDEDNESS: double  
TOPOLOGY: linear  
MOLECULE TYPE: DNA (genomic)  
HYPOTHEICAL: NO  
ORIGINAL SOURCE:  
INDIVIDUAL ISOLATE: Human gene PRB3L for proline rich  
INDIVIDUAL ISOLATE: protein G1  
US-08-475-228A-269

Query Match 67.6%; Score 14.2; DB 2; Length 46;  
Best Local Similarity 84.2%; Prod. No. 7002;

Matches 16; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

QY 1 GAACTATGGAGAGAGAGCT 19  
 11 11111111 1111 1  
 16 43 GAACTATGGAGAGAGCT 25

## RESULT 6

US 08 482 080A 25/9/97

Sequence 269, Application US/08482080A  
 Patent No. 6010849  
 GENERAL INFORMATION:  
 APPLICANT: Edwards, Cynthia A.  
 APPLICANT: Cantor, Charles R.  
 APPLICANT: Andrews, Beth M.  
 APPLICANT: Turin, Lisa M.  
 APPLICANT: Fry, Kirk E.  
 TITLE OF INVENTION: Sequence-Directed DNA Binding  
 NUMBER OF SEQUENCES: 664  
 CORRESPONDENCE ADDRESS:  
 ADDRESSEE: Genelabs Technologies, Inc.  
 STREET: 505 Pendleton Drive  
 CITY: Redwood City  
 STATE: CA  
 COUNTRY: USA  
 ZIP: 94063  
 COMPUTER READABLE FORM:  
 MEDIUM TYPE: Floppy disk  
 COMPUTER: IBM PC compatible  
 OPERATING SYSTEM: PC DOS/MS DOS  
 SOFTWARE: Patent In Release #1.0, Version #1.25  
 CURRENT APPLICATION DATA:  
 APPLICATION NUMBER: US/08/482,080A  
 FILING DATE: 07 JUN 1995  
 PRIOR APPLICATION DATA:  
 APPLICATION NUMBER: US 08/171,489  
 FILING DATE: 20-DEC-1993  
 PRIOR APPLICATION DATA:  
 APPLICATION NUMBER: US 08/124,946  
 FILING DATE: 17 SEP 1994  
 PRIOR APPLICATION DATA:  
 APPLICATION NUMBER: US 07/996,763  
 FILING DATE: 23 DEC 1992  
 PRIOR APPLICATION DATA:  
 APPLICATION NUMBER: US 07/724,618  
 FILING DATE: 27 JUN 1991  
 PRIOR APPLICATION DATA:  
 APPLICATION NUMBER: US 08/081,070  
 FILING DATE: 22 JUN 1994  
 ATTORNEY/AGENT INFORMATION:  
 NAME: Brady, John F.  
 REGISTRATION NUMBER: 49,118  
 REFERENCE/PACKET NUMBER: 4600 0175, 20/6191-01  
 TELECOMMUNICATION INFORMATION:  
 TELEPHONE: (650) 424-0880  
 TELEFAX: (650) 424-0960  
 INFORMATION FOR SEQ ID NO: 269:  
 SEQUENCE CHARACTERISTICS:  
 LENGTH: 46 base pairs  
 TYPE: nucleic acid  
 STRANDEDNESS: double  
 TOPOLOGY: linear  
 MOLECULE TYPE: DNA (genomic)  
 HYPOTHEICAL: NO  
 ORIGINAL SOURCE:  
 INDIVIDUAL ISOLATE: Human gene PB84L for proline-rich  
 INDIVIDUAL ISOLATE: protein G1

Query Match 67.6%; Score 14.2; DB 4; Length 46;

Best Local Similarity 84.2%; Prod. No. 76023; 4; Indels 0; Gaps 0;

QY 1 GAACTATGGAGAGAGAGCT 19  
 11 11111111 1111 1  
 16 43 GAACTATGGAGAGAGCT 25

## RESULT 7

US 09 454 947 26/9/97

Sequence 269, Application US/09454947  
 Patent No. 6064208  
 GENERAL INFORMATION:  
 APPLICANT: Edwards, Cynthia A.  
 APPLICANT: Cantor, Charles R.  
 APPLICANT: Andrews, Beth M.  
 APPLICANT: Turin, Lisa M.  
 APPLICANT: Fry, Kirk E.  
 TITLE OF INVENTION: Sequence Directed DNA Binding  
 NUMBER OF SEQUENCES: 664  
 CORRESPONDENCE ADDRESS:  
 ADDRESSEE: Genelabs Technologies, Inc.  
 STREET: 505 Pendleton Drive  
 CITY: Redwood City  
 STATE: CA  
 COUNTRY: USA  
 ZIP: 94063  
 COMPUTER READABLE FORM:  
 MEDIUM TYPE: Floppy disk  
 COMPUTER: IBM PC compatible  
 OPERATING SYSTEM: PC DOS/MS DOS  
 SOFTWARE: Patent In Release #1.0, Version #1.25  
 CURRENT APPLICATION DATA:  
 APPLICATION NUMBER: US/09/454,947  
 FILING DATE:  
 PRIOR APPLICATION DATA:  
 APPLICATION NUMBER: US 08/482,080  
 FILING DATE: 07 JUN 1995  
 APPLICATION NUMBER: US 08/171,489  
 FILING DATE: 20 DEC 1994  
 PRIOR APPLICATION DATA:  
 APPLICATION NUMBER: US 08/124,946  
 FILING DATE: 17 SEP 1994  
 PRIOR APPLICATION DATA:  
 APPLICATION NUMBER: US 07/996,763  
 FILING DATE: 23 DEC 1992  
 PRIOR APPLICATION DATA:  
 APPLICATION NUMBER: US 07/724,618  
 FILING DATE: 27 JUN 1991  
 PRIOR APPLICATION DATA:  
 APPLICATION NUMBER: US 08/081,070  
 FILING DATE: 22 JUN 1994  
 ATTORNEY/AGENT INFORMATION:  
 NAME: Brady, John F.  
 REGISTRATION NUMBER: 49,118  
 REFERENCE/PACKET NUMBER: 4600 0175, 20/6191-01  
 TELECOMMUNICATION INFORMATION:  
 TELEPHONE: (650) 424-0880  
 TELEFAX: (650) 424-0960  
 INFORMATION FOR SEQ ID NO: 269:  
 SEQUENCE CHARACTERISTICS:  
 LENGTH: 46 base pairs  
 TYPE: nucleic acid  
 STRANDEDNESS: double  
 TOPOLOGY: linear  
 MOLECULE TYPE: DNA (genomic)  
 HYPOTHEICAL: NO  
 ORIGINAL SOURCE:  
 INDIVIDUAL ISOLATE: Human gene PB84L for proline-rich  
 INDIVIDUAL ISOLATE: protein G1

Query Match

Best Local Similarity 84.2%; Score 14.2; DB 4; Length 46;



Query Match: 65.7%; Score 14.8; DB 4; Length 40;  
 Best Local Similarity: 88.2%; Pred. No. 100%;  
 Matches: 15; Conservative: 0; Mismatches: 2; Indels: 0; Gaps: 0;

QY 2 AACGATGGAGGCGG 18  
 1111111111111111  
 DB 5 AACGATGGAGGCGG 21

RESULT 11  
 US 08 600 999 8  
 : Sequence 8, Application US/08600999  
 : Patent No. 5925565  
 : GENERAL INFORMATION:  
 : APPLICANT: BERLOZ, Clarisse  
 : APPLICANT: JACQUEMONT, Sandrine  
 : APPLICANT: TORRENT, Christophe  
 : APPLICANT: DARLIX, Jean-Luc  
 : TITLE OF INVENTION: NEW INTERNAL RIBOSOME ENTRY SITE, VECTOR  
 : TITLE OF INVENTION: CONTAINING IT AND THERAPEUTIC USE  
 : NUMBER OF SEQUENCES: 16  
 : CORRESPONDENCE ADDRESS:  
 : ADDRESSEE: BURNS, DEANE, SWECKER & MATHIS  
 : STREET: P.O. Box 1404  
 : CITY: Alexandria  
 : STATE: Virginia  
 : COUNTRY: United States  
 : ZIP: 22304 1404  
 : COMPUTER READABLE FORM:  
 : MEDIUM TYPE: Floppy disk  
 : COMPUTER: IBM PC compatible  
 : OPERATING SYSTEM: PC-DOS/MS-DOS  
 : SOFTWARE: Patent In Release #1.0, Version #1.40  
 : CURRENT APPLICATION DATA:  
 : APPLICATION NUMBER: US/08/600,999  
 : FILING DATE: 05-MAR-1996  
 : CLASSIFICATION: 514  
 : PRIOR APPLICATION DATA:  
 : APPLICATION NUMBER: FR 94 08400  
 : FILING DATE: 05-JUL-1994  
 : PRIOR APPLICATION DATA:  
 : APPLICATION NUMBER: WO 94/00894  
 : FILING DATE: 05-JUL-1995  
 : ATTORNEY/AGENT INFORMATION:  
 : NAME: ROA, Teresa Stanek  
 : REGISTRATION NUMBER: 40,427  
 : REFERENCE/DECKET NUMBER: 017754-072  
 : TELECOMMUNICATION INFORMATION:  
 : TELEPHONE: (703) 846-6620  
 : TELEFAX: (703) 846-2021  
 : INFORMATION FOR SEQ ID NO: 8:  
 : SEQUENCE CHARACTERISTICS:  
 : LENGTH: 40 base pairs  
 : TYPE: nucleic acid  
 : STRANDEDNESS: single  
 : TOPOLOGY: linear  
 : MOLECULE TYPE: DNA (synthetic)  
 : HYPOTHETICAL: NO  
 : ANTI SENSE: YES  
 : ORIGINAL SOURCE:  
 : STRAIN: rat VL40 element  
 : INDIVIDUAL ISOLATE: clone 14  
 : US 08 600 999 8

Query Match: 65.7%; Score 14.8; DB 2; Length 40;  
 Best Local Similarity: 88.2%; Pred. No. 100%;  
 Matches: 15; Conservative: 0; Mismatches: 2; Indels: 0; Gaps: 0;

QY 1 GAGGATGGAGGCGG 17  
 1111111111111111  
 DB 7 GAGGATGGAGGCGG 24

RESULT 12  
 US 09 257 580 5/c  
 : Sequence 29, Application US/09257580A  
 : Patent No. 6429662  
 : GENERAL INFORMATION:  
 : APPLICANT: Chane, Virginia  
 : TITLE OF INVENTION: Family of Maize PR 1 Genes And Promoters  
 : FILE REFERENCE: 5/19 92, 00/718/175,219  
 : CURRENT APPLICATION NUMBER: US/09/257,580A  
 : NUMBER OF SEQ ID NOS: 47  
 : SOFTWARE: Patent In Ver. 2.0  
 : SEQ ID No 26  
 : LENGTH: 40  
 : TYPE: DNA  
 : ORGANISM: Artificial Sequence  
 : FEATURE:  
 : OTHER INFORMATION: Description of Artificial Sequence: Maize  
 : OTHER INFORMATION: gene-specific PCR primer  
 : US-09-257-580-26

Query Match: 65.7%; Score 14.8; DB 4; Length 40;  
 Best Local Similarity: 88.2%; Pred. No. 100%;  
 Matches: 15; Conservative: 0; Mismatches: 2; Indels: 0; Gaps: 0;

QY 4 CCAATGAGGAGGCGG 20  
 1111111111111111  
 DB 17 CCAATGAGGAGGCGG 1

RESULT 13  
 US 09 257 580 5/c  
 : Sequence 5, Application US/09257580  
 : Patent No. 6407046  
 : GENERAL INFORMATION:  
 : APPLICANT: Yorkshire Cancer Research,  
 : TITLE OF INVENTION: Tobacco Suppressor Gene  
 : FILE REFERENCE: Canine p54  
 : CURRENT APPLICATION NUMBER: US/09/257,580  
 : CURRENT FILING DATE: 1999 02 25  
 : PRIOR APPLICATION NUMBER: 9804178.3  
 : PRIOR FILING DATE: 1998 02 28  
 : NUMBER OF SEQ ID NOS: 11  
 : SOFTWARE: Patent In Ver. 2.1  
 : SEQ ID No 5  
 : LENGTH: 44  
 : TYPE: DNA  
 : ORGANISM: Canis  
 : US 09 257 580 5

Query Match: 65.7%; Score 14.6; DB 4; Length 44;  
 Best Local Similarity: 90.0%; Pred. No. 100%;  
 Matches: 12; Conservative: 4; Mismatches: 0; Indels: 0; Gaps: 0;

QY 4 CCAATGAGGAGGCGG 18  
 1111111111111111  
 DB 22 CCAATGAGGAGGCGG 8

RESULT 14  
 US 09 064 411A 17  
 : Sequence 17, Application US/09064411A  
 : Patent No. 6336664  
 : GENERAL INFORMATION:  
 : APPLICANT: Rafan Wilson, Beth  
 : APPLICANT: Gao, Linlin  
 : APPLICANT: Skelton  
 : APPLICANT: Young, Scott  
 : APPLICANT: Folkerts, Otto  
 : APPLICANT: Armstrong, Katherine  
 : APPLICANT: Cowen, Neil M.  
 : TITLE OF INVENTION: Nucleotide Sequences of Maize cDNA

```

? TITLE OF INVENTION: Thioesterase and Palmitoyl ACP Thioesterase Genes and
? NUMBER OF SEQUENCES: 49
? CORRESPONDENCE ADDRESS:
? ADDRESSEE: Dow Agrosciences Patent Department
? STREET: 9340 Zionsville Road
? CITY: Indianapolis
? STATE: Indiana
? COUNTRY: USA
? ZIP: 46268
? COMPUTER READABLE FORM:
? MEDIUM TYPE: Floppy disk
? COMPUTER: IBM PC compatible
? OPERATING SYSTEM: PC-DOS/MS-DOS
? SOFTWARE: Patent In Release #1.0, Version #1.30
? CURRENT APPLICATION DATA:
? APPLICATION NUMBER: US/09/064,411A
? FILING DATE: 22-APR-1998
? CLASSIFICATION: 800
? PRIOR APPLICATION DATA:
? APPLICATION NUMBER: US 60/045,827
? FILING DATE: 05-MAY-1997
? ATTORNEY/AGENT INFORMATION:
? NAME: Borucki, Andrea L.
? REGISTRATION NUMBER: 43651
? REFERENCE/DOCKET NUMBER: 50433
? TELECOMMUNICATION INFORMATION:
? TELEPHONE: 317-337-4846
? TELEFAX: 317-337-4847
? INFORMATION FOR SEQ ID NO: 17:
? SEQUENCE CHARACTERISTICS:
? LENGTH: 43 base pairs
? TYPE: nucleic acid
? STRANDEDNESS: Single
? TOPOLOGY: Linear
? MOLECULE TYPE: DNA
? US-09-064-411A-17

```

```

Query Match 64.8% Score 13.6; DB 4; Length 43;
Best Local Similarity 80.0%; Pred. No. 1.3e+03;
Matches 16; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

```

```

QY 2 AACATGGACAGGCGGCGG 21
1 | | | | | | | | | | | |
1b 22 AACATGGACAGGCGGCGG 41

```

```

RESULT 15
US-09-064-411A-24
? Sequence 24, Application US/09/064411A
? Patent No. 6331664
? GENERAL INFORMATION:
? APPLICANT: Robert Wilson, Beth
? APPLICANT: Guo, Lining
? APPLICANT: Skokut, Tom
? APPLICANT: Young, Scott
? APPLICANT: Folkerts, Otto
? APPLICANT: Armstrong, Katherine
? APPLICANT: Cowen, Neil M.
? TITLE OF INVENTION: Nucleotide Sequences of Maize oleoyl ACP
? TITLE OF INVENTION: Thioesterase and Palmitoyl-ACP Thioesterase Genes and
? TITLE OF INVENTION: Their Use In The Regulation of Fatty Acid Content of Oil
? NUMBER OF SEQUENCES: 49
? CORRESPONDENCE ADDRESS:
? ADDRESSEE: Dow Agrosciences Patent Department
? STREET: 9340 Zionsville Road
? CITY: Indianapolis
? STATE: Indiana
? COUNTRY: USA
? ZIP: 46268
? COMPUTER READABLE FORM:
? MEDIUM TYPE: Floppy disk
? COMPUTER: IBM PC compatible

```

```

? OPERATING SYSTEM: PC-DOS/MS-DOS
? SOFTWARE: Patent In Release #1.0, Version #1.30
? CURRENT APPLICATION DATA:
? APPLICATION NUMBER: US/09/064,411A
? FILING DATE: 22-APR-1998
? CLASSIFICATION: 800
? PRIOR APPLICATION DATA:
? APPLICATION NUMBER: US 60/045,827
? FILING DATE: 05-MAY-1997
? ATTORNEY/AGENT INFORMATION:
? NAME: Borucki, Andrea L.
? REGISTRATION NUMBER: 43651
? REFERENCE/DOCKET NUMBER: 50433
? TELECOMMUNICATION INFORMATION:
? TELEPHONE: 317-337-4846
? TELEFAX: 317-337-4847
? INFORMATION FOR SEQ ID NO: 24:
? SEQUENCE CHARACTERISTICS:
? LENGTH: 19 base pairs
? TYPE: nucleic acid
? STRANDEDNESS: Single
? TOPOLOGY: Linear
? MOLECULE TYPE: DNA
? US-09-064-411A-24

```

```

Query Match 62.9% Score 13.2; DB 4; Length 19;
Best Local Similarity 83.5%; Pred. No. 1.9e+03;
Matches 15; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

```

```

QY 4 CCAATGAGGAGGCGGCGG 21
1 | | | | | | | | | | | |
1b 1 CCAATGAGGAGGCGGCGG 18

```

```

RESULT 16
US-08-735-609-7/c
? Sequence 7, Application US/08/45609
? Patent No. 5955360
? GENERAL INFORMATION:
? APPLICANT: Chamberlain, Jeffrey S.
? APPLICANT: Amalfitano, Andrea
? APPLICANT: Hauser, Michael A.
? APPLICANT: Kumar, Singh, Rajendra
? APPLICANT: Hartigan, O'Connor, Dennis J.
? TITLE OF INVENTION: IMPROVED ADEN-VIRUS VECTORS
? NUMBER OF SEQUENCES: 15
? CORRESPONDENCE ADDRESS:
? ADDRESSEE: Medlen & Carroll, LLP
? STREET: 220 Montgomery Street, Suite 2200
? CITY: San Francisco
? STATE: California
? COUNTRY: United States of America
? ZIP: 94104
? COMPUTER READABLE FORM:
? MEDIUM TYPE: Floppy disk
? COMPUTER: IBM PC compatible
? OPERATING SYSTEM: PC-DOS/MS-DOS
? SOFTWARE: Patent In Release #1.0, Version #1.30
? CURRENT APPLICATION DATA:
? APPLICATION NUMBER: US/08/735,609
? FILING DATE:
? CLASSIFICATION: 435
? ATTORNEY/AGENT INFORMATION:
? NAME: Indolia, Diane E.
? REGISTRATION NUMBER: 40,027
? REFERENCE/DOCKET NUMBER: 02484
? TELECOMMUNICATION INFORMATION:
? TELEPHONE: (415) 705-8410
? TELEFAX: (415) 397-8438
? INFORMATION FOR SEQ ID NO: 7:
? SEQUENCE CHARACTERISTICS:
? LENGTH: 27 base pairs
? TYPE: nucleic acid

```

```

? STRANDEDNESS: single
? TOPOLOGY: linear
? MOLECULE TYPE: other nucleic acid
? DESCRIPTION: /desc "DNA"
US-09 745,609-7
Query Match 62.9%; Score 14.2; DB 2; Length 27;
Best Local Similarity 83.9%; Pred. No. 1,960,043;
Matches 15; Conservative 0; Mismatches 4; Indels 0; Gaps 0;
QY 1 GAGGATAGGAGAGGAG 18
1 11111111111111111111
1b 23 GAGGATAGGAGAGGAG 6

```

```

RESULT 17
US-09 745,609-7/c
? Sequence 7, Application US/08745609
? Patent No. 5994142
? GENERAL INFORMATION:
? APPLICANT: Chamberlain, Jeffrey S.
? BAUSEY, Michael A.
? KUMAR-SINGH, Rajendra
? BARTIGAN-O'CONNOR, Dennis J.
? TITLE OF INVENTION: IMPROVED ADENOVIRUS VECTORS
? NUMBER OF SEQUENCES: 15
? CORRESPONDENCE ADDRESS:
? ADDRESSEE: Medlon & Carroll, LLP
? STREET: 220 Montgomery Street, Suite 2200
? CITY: San Francisco
? STATE: California
? COUNTRY: United States of America
? ZIP: 94104
? COMPUTER READABLE FORM:
? MEDIUM TYPE: floppy disk
? COMPUTER: IBM PC compatible
? OPERATING SYSTEM: PC DOS/MS DOS
? SOFTWARE: Patent In Release #1.0, Version #1.40
? CURRENT APPLICATION DATA:
? APPLICATION NUMBER: US/08745,609
? FILING DATE: 23-Oct-1996
? CLASSIFICATION: unknown
? ATTORNEY/AGENT INFORMATION:
? NAME: Inopolia, Diana E.
? REGISTRATION NUMBER: 40,027
? REFERENCE/DOCKET NUMBER: 08 02484
? TELEPHONE: (415) 705 8410
? TELEFAX: (415) 497 8438
? INFORMATION FOR SEQ ID NO: 7:
? SEQUENCE CHARACTERISTICS:
? LENGTH: 27 base pairs
? TYPE: nucleic acid
? STRANDEDNESS: single
? TOPOLOGY: linear
? MOLECULE TYPE: other nucleic acid
? DESCRIPTION: /desc "DNA"
? SEQUENCE DESCRIPTION: SEQ ID NO: 7:
US-09 745,609-7

```

```

Query Match 62.9%; Score 14.2; DB 2; Length 27;
Best Local Similarity 83.9%; Pred. No. 1,960,043;
Matches 15; Conservative 0; Mismatches 4; Indels 0; Gaps 0;
QY 1 GAGGATAGGAGAGGAG 18
1 11111111111111111111
1b 23 GAGGATAGGAGAGGAG 6

```

```

RESULT 18
US-09 415,472-7/c
? Sequence 7, Application US/09415472

```

```

? Patent No. 6057158
? GENERAL INFORMATION:
? APPLICANT: Chamberlain, Jeffrey S.
? APPLICANT: Amalfitano, Andrea
? APPLICANT: Bausey, Michael A.
? APPLICANT: Kumar-Singh, Rajendra
? APPLICANT: Bartigan-O'Connor, Dennis J.
? TITLE OF INVENTION: IMPROVED ADENOVIRUS VECTORS
? NUMBER OF SEQUENCES: 15
? CORRESPONDENCE ADDRESS:
? ADDRESSEE: Medlon & Carroll, LLP
? STREET: 220 Montgomery Street, Suite 2200
? CITY: San Francisco
? STATE: California
? COUNTRY: United States of America
? ZIP: 94104
? COMPUTER READABLE FORM:
? MEDIUM TYPE: floppy disk
? COMPUTER: IBM PC compatible
? OPERATING SYSTEM: PC DOS/MS DOS
? SOFTWARE: Patent In Release #1.0, Version #1.40
? CURRENT APPLICATION DATA:
? APPLICATION NUMBER: US/09415,472
? FILING DATE:
? CLASSIFICATION:
? PRIOR APPLICATION DATA:
? APPLICATION NUMBER: US 08/745,609
? FILING DATE:
? ATTORNEY/AGENT INFORMATION:
? NAME: Inopolia, Diana E.
? REGISTRATION NUMBER: 40,027
? REFERENCE/DOCKET NUMBER: 08 02484
? TELEPHONE: (415) 705 8410
? TELEFAX: (415) 497 8438
? INFORMATION FOR SEQ ID NO: 7:
? SEQUENCE CHARACTERISTICS:
? LENGTH: 27 base pairs
? TYPE: nucleic acid
? STRANDEDNESS: single
? TOPOLOGY: linear
? MOLECULE TYPE: other nucleic acid
? DESCRIPTION: /desc "DNA"
US-09 415,472-7
Query Match 62.9%; Score 14.2; DB 2; Length 27;
Best Local Similarity 83.9%; Pred. No. 1,960,043;
Matches 15; Conservative 0; Mismatches 4; Indels 0; Gaps 0;
QY 1 GAGGATAGGAGAGGAG 18
1 11111111111111111111
1b 23 GAGGATAGGAGAGGAG 6

```

```

RESULT 19
US-09 244,752-1/c
? Sequence 7, Application US/09244752
? Patent No. 6064622
? GENERAL INFORMATION:
? APPLICANT: Chamberlain, Jeffrey S.
? APPLICANT: Amalfitano, Andrea
? APPLICANT: Bausey, Michael A.
? APPLICANT: Kumar-Singh, Rajendra
? APPLICANT: Bartigan-O'Connor, Dennis J.
? TITLE OF INVENTION: IMPROVED ADENOVIRUS VECTORS
? NUMBER OF SEQUENCES: 15
? CORRESPONDENCE ADDRESS:
? ADDRESSEE: Medlon & Carroll, LLP
? STREET: 220 Montgomery Street, Suite 2200
? CITY: San Francisco
? STATE: California
? COUNTRY: United States of America
? ZIP: 94104

```



```

? COMPUTER READABLE FORM:
? MEDIUM TYPE: Floppy disk
? COMPUTER: IBM PC compatible
? BEST LOCAL SIMILARITY: 83.4% Pred. No. 1.9e+03;
? OPERATING SYSTEM: PC-DOS/MS-DOS
? SOFTWARE: Patent In Release #1.0, Version #1.30
? CURRENT APPLICATION DATA:
? APPLICATION NUMBER: US/09/244,752
? FILING DATE:
? CLASSIFICATION:
? PRIOR APPLICATION DATA:
? APPLICATION NUMBER: 08/735,609
? FILING DATE:
? ATTORNEY/AGENT INFORMATION:
? NAME: Inoué, Diane E.
? REGISTRATION NUMBER: 40,027
? REFERENCE/DOCKET NUMBER: UM-02484
? TELECOMMUNICATION INFORMATION:
? TELEPHONE: (415) 705-8410
? TELEFAX: (415) 397-8338
? INFORMATION FOR SEQ ID NO: 7:
? SEQUENCE CHARACTERISTICS:
? LENGTH: 27 base pairs
? TYPE: nucleic acid
? STRANDEDNESS: single
? TOPOLOGY: linear
? MOLECULE TYPE: other nucleic acid
? DESCRIPTION: /desc "DNA"
US-09-244 752-7

Query Match: 62.9% Score 13.2; DB 4; Length 27;
Best Local Similarity 83.4% Pred. No. 1.9e+03;
Matches 15; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 1 GACGATGAGGACCG 18
DB 24 GCGATGAGGACCG 6

RESULT 20
US-09-245 497-7/c
? Sequence 7, Application US/09245497
? Patent No. 6084750
? GENERAL INFORMATION:
? APPLICANT: Chamberlain, Jeffrey S.
? APPLICANT: Amalfitano, Andrea
? APPLICANT: Hauser, Michael A.
? APPLICANT: Kumar-Singh, Rajendra
? APPLICANT: Hartigan-O'Connor, Dennis J.
? TITLE OF INVENTION: IMPROVED ADENOVIRUS VECTORS
? NUMBER OF SEQUENCES: 15
? CORRESPONDENCE ADDRESS:
? ADDRESS: Medlen & Carroll, LLP
? STREET: 220 Montgomery Street, Suite 2200
? CITY: San Francisco
? STATE: California
? COUNTRY: United States of America
? ZIP: 94104
? COMPUTER READABLE FORM:
? MEDIUM TYPE: Floppy disk
? COMPUTER: IBM PC compatible
? OPERATING SYSTEM: PC-DOS/MS-DOS
? SOFTWARE: Patent In Release #1.0, Version #1.30
? CURRENT APPLICATION DATA:
? APPLICATION NUMBER: US/09/562,919
? FILING DATE: 02-May-2000
? CLASSIFICATION: <Unknown>
? PRIOR APPLICATION DATA:
? FILING DATE: 24-Oct-1996
? ATTORNEY/AGENT INFORMATION:
? NAME: Inoué, Diane E.
? REGISTRATION NUMBER: 40,027
? REFERENCE/DOCKET NUMBER: UM-02484
? TELECOMMUNICATION INFORMATION:
? TELEPHONE: (415) 705-8410
? TELEFAX: (415) 397-8338
? INFORMATION FOR SEQ ID NO: 7:
? SEQUENCE CHARACTERISTICS:
? LENGTH: 27 base pairs
? TYPE: nucleic acid
? STRANDEDNESS: single
? TOPOLOGY: linear
? MOLECULE TYPE: other nucleic acid
? DESCRIPTION: /desc "DNA"
? ATTORNEY/AGENT INFORMATION:
? NAME: Inoué, Diane E.
? REGISTRATION NUMBER: 40,027
? REFERENCE/DOCKET NUMBER: UM-02484

```

```

? TELECOMMUNICATION INFORMATION:
? TELEPHONE: (415) 705-8410
? TELEFAX: (415) 397-8338
? INFORMATION FOR SEQ ID NO: 7:
? SEQUENCE CHARACTERISTICS:
? LENGTH: 27 base pairs
? TYPE: nucleic acid
? STRANDEDNESS: single
? TOPOLOGY: linear
? MOLECULE TYPE: other nucleic acid
? DESCRIPTION: /desc "DNA"
US-09-245-497-7

Query Match: 62.9% Score 13.2; DB 3; Length 27;
Best Local Similarity 83.4% Pred. No. 1.9e+03;
Matches 15; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 1 GACGATGAGGACCG 18
DB 24 GCGATGAGGACCG 6

RESULT 21
US-09-562-919-7/c
? Sequence 7, Application US/09562919
? Patent No. 6451596
? GENERAL INFORMATION:
? APPLICANT: Chamberlain, Jeffrey S.
? APPLICANT: Amalfitano, Andrea
? APPLICANT: Hauser, Michael A.
? APPLICANT: Kumar-Singh, Rajendra
? APPLICANT: Hartigan-O'Connor, Dennis J.
? TITLE OF INVENTION: IMPROVED ADENOVIRUS VECTORS
? NUMBER OF SEQUENCES: 15
? CORRESPONDENCE ADDRESS:
? ADDRESS: Medlen & Carroll, LLP
? STREET: 220 Montgomery Street, Suite 2200
? CITY: San Francisco
? STATE: California
? COUNTRY: United States of America
? ZIP: 94104
? COMPUTER READABLE FORM:
? MEDIUM TYPE: Floppy disk
? COMPUTER: IBM PC compatible
? OPERATING SYSTEM: PC-DOS/MS-DOS
? SOFTWARE: Patent In Release #1.0, Version #1.30
? CURRENT APPLICATION DATA:
? APPLICATION NUMBER: US/09/562,919
? FILING DATE: 02-May-2000
? CLASSIFICATION: <Unknown>
? PRIOR APPLICATION DATA:
? FILING DATE: 24-Oct-1996
? ATTORNEY/AGENT INFORMATION:
? NAME: Inoué, Diane E.
? REGISTRATION NUMBER: 40,027
? REFERENCE/DOCKET NUMBER: UM-02484
? TELECOMMUNICATION INFORMATION:
? TELEPHONE: (415) 705-8410
? TELEFAX: (415) 397-8338
? INFORMATION FOR SEQ ID NO: 7:
? SEQUENCE CHARACTERISTICS:
? LENGTH: 27 base pairs
? TYPE: nucleic acid
? STRANDEDNESS: single
? TOPOLOGY: linear
? MOLECULE TYPE: other nucleic acid
? DESCRIPTION: /desc "DNA"
? ATTORNEY/AGENT INFORMATION:
? NAME: Inoué, Diane E.
? REGISTRATION NUMBER: 40,027
? REFERENCE/DOCKET NUMBER: UM-02484

```



Query Match 61.98; Score 14; DB 3; Length 17;  
 Best Local Similarity 100.08; Pred. No. 2.3e+04;  
 Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 4 CAAAGGAGGCG 16  
 Db 13 CAAAGGAGGCG 1

## RESULT 25

US-09-258 408-82/C

; Sequence #2, Application US/09258408  
 ; Patent No. 6121434

## GENERAL INFORMATION:

; APPLICANT: PEYMAN, Anuschirwan

; APPLICANT: UHLMANN, Eugen

; TITLE OF INVENTION: GAP-STABILIZED OLIGONUCLEOTIDES

; NUMBER OF SEQUENCES: 105

## CORRESPONDENCE ADDRESS:

; ADDRESSEE: Foley & Lardner

; STREET: 4000 K Street, N.W., Suite 500

; CITY: Washington

; STATE: D.C.

; COUNTRY: USA

; ZIP: 20007-5104

## COMPUTER READABLE FORM:

; MEDIUM TYPE: Floppy disk

; COMPUTER: IBM PC compatible

; OPERATING SYSTEM: PC-DOS/MS-DOS

; SOFTWARE: Patent Release #1.0, Version #1.00

; CURRENT APPLICATION DATA:

; APPLICATION NUMBER: US/09/258,408

; FILING DATE:

## CLASSIFICATION:

; PRIOR APPLICATION DATA:

; APPLICATION NUMBER: 08/594,452

; FILING DATE:

## ATTORNEY/AGENT INFORMATION:

; NAME: SANDERCOCK, Colin G.

; REGISTRATION NUMBER: 41,298

; REFERENCE/DOCKET NUMBER: 18748/264/H0CE

## TELECOMMUNICATION INFORMATION:

; TELEPHONE: (202)672-5300

; TELEFAX: (202)672-5499

; TELEX: 904136

; INFORMATION FOR SEQ ID NO: 82:

## SEQUENCE CHARACTERISTICS:

; LENGTH: 17 base pairs

; TYPE: nucleic acid

; STRANDEDNESS: single

; TOPOLOGY: linear

US-09-258 408-82

Query Match 61.98; Score 14; DB 3; Length 17;  
 Best Local Similarity 100.08; Pred. No. 2.3e+04;  
 Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 4 CAAAGGAGGCG 16  
 Db 13 CAAAGGAGGCG 1

Search completed: March 18, 2004, 12:09:05  
 Job time : 33.6066 secs













541	10	47.6	12	9	US-09-835-470-35	Sequence 45, Appl	504	10	47.6	34	10	US-09-828-41-46	Sequence 46, Appl
542	10	47.6	13	10	US-09-865-029-55	Sequence 56, Appl	505	10	47.6	35	8	US-09-501-017-7	Sequence 7, Appl
543	10	47.6	14	10	US-09-465-029-75	Sequence 75, Appl	506	10	47.6	35	9	US-09-796-54-8	Sequence 2, Appl
544	10	47.6	15	10	US-09-465-029-79	Sequence 79, Appl	507	10	47.6	35	9	US-09-240-926A-57	Sequence 57, Appl
545	10	47.6	16	10	US-09-465-029-6	Sequence 6, Appl	508	10	47.6	35	10	US-09-949-408A-1	Sequence 1, Appl
546	10	47.6	17	9	US-09-465-029-12	Sequence 12, Appl	509	10	47.6	36	9	US-09-965-131-2	Sequence 2, Appl
547	10	47.6	18	9	US-09-890-813-18	Sequence 18, Appl	510	10	47.6	36	9	US-09-201-396-40	Sequence 40, Appl
548	10	47.6	19	9	US-09-888-426-191	Sequence 191, Appl	511	10	47.6	36	9	US-10-168-018-3	Sequence 3, Appl
549	10	47.6	20	10	US-09-870-813-21	Sequence 21, Appl	512	10	47.6	36	10	US-09-854-666-14	Sequence 14, Appl
550	10	47.6	21	10	US-09-073-881-2	Sequence 2, Appl	513	10	47.6	36	10	US-09-854-666-40	Sequence 40, Appl
551	10	47.6	22	10	US-09-757-100B-3	Sequence 3, Appl	514	10	47.6	37	10	US-09-784-990-8	Sequence 8, Appl
552	10	47.6	23	9	US-09-791-243-80	Sequence 80, Appl	515	10	47.6	37	10	US-09-941-186-9	Sequence 9, Appl
553	10	47.6	24	9	US-09-853-526-171	Sequence 171, Appl	516	10	47.6	38	10	US-09-896-852-21	Sequence 21, Appl
554	10	47.6	25	10	US-09-012-145A-38	Sequence 38, Appl	517	10	47.6	39	9	US-09-595-847-20	Sequence 20, Appl
555	10	47.6	26	10	US-09-901-484A-171	Sequence 171, Appl	518	10	47.6	39	9	US-09-742-160A-2	Sequence 2, Appl
556	10	47.6	27	10	US-09-143-127-18	Sequence 18, Appl	519	10	47.6	39	10	US-09-309-196-107	Sequence 107, Appl
557	10	47.6	28	9	US-10-101-461-13	Sequence 13, Appl	520	10	47.6	39	10	US-09-727-311-28	Sequence 28, Appl
558	10	47.6	29	9	US-10-077-023-27	Sequence 27, Appl	521	10	47.6	39	10	US-09-742-137-2	Sequence 2, Appl
559	10	47.6	30	9	US-09-875-338-27	Sequence 338, Appl	522	10	47.6	40	10	US-09-894-633A-49	Sequence 49, Appl
560	10	47.6	31	9	US-09-941-795-9	Sequence 9, Appl	523	10	47.6	40	10	US-09-752-110A-12	Sequence 12, Appl
561	10	47.6	32	9	US-10-007-132-47	Sequence 47, Appl	524	10	47.6	41	9	US-09-995-847-19	Sequence 19, Appl
562	10	47.6	33	10	US-09-374-671-33	Sequence 33, Appl	525	10	47.6	42	9	US-09-941-492-110	Sequence 110, Appl
563	10	47.6	34	25	US-09-374-671-44	Sequence 44, Appl	526	10	47.6	42	10	US-09-865-807-42	Sequence 42, Appl
564	10	47.6	35	25	US-09-866-108-3627	Sequence 3627, Appl	527	10	47.6	43	9	US-09-970-561-5	Sequence 5, Appl
565	10	47.6	36	25	US-09-866-108-12122	Sequence 12122, Appl	528	10	47.6	43	9	US-10-097-597-10	Sequence 10, Appl
566	10	47.6	37	25	US-09-866-108-12123	Sequence 12123, Appl	529	10	47.6	43	9	US-10-097-580-10	Sequence 10, Appl
567	10	47.6	38	25	US-09-866-108-12124	Sequence 12124, Appl	530	10	47.6	43	10	US-09-445-023A-10	Sequence 10, Appl
568	10	47.6	39	25	US-09-866-108-12125	Sequence 12125, Appl	531	10	47.6	45	9	US-09-925-922-18	Sequence 18, Appl
569	10	47.6	40	25	US-09-866-108-12126	Sequence 12126, Appl	532	10	47.6	45	9	US-10-007-142-12	Sequence 12, Appl
570	10	47.6	41	25	US-09-866-108-12127	Sequence 12127, Appl	533	10	47.6	45	9	US-10-007-132-45	Sequence 45, Appl
571	10	47.6	42	25	US-09-866-108-12128	Sequence 12128, Appl	534	10	47.6	45	9	US-10-007-132-52	Sequence 52, Appl
572	10	47.6	43	25	US-09-866-108-12129	Sequence 12129, Appl	535	10	47.6	48	9	US-09-861-257-29	Sequence 29, Appl
573	10	47.6	44	25	US-09-735-705-359	Sequence 359, Appl	536	10	47.6	48	9	US-09-990-046-11	Sequence 11, Appl
574	10	47.6	45	25	US-09-750-373-49	Sequence 373, Appl	537	10	47.6	48	10	US-09-785-632A-16	Sequence 16, Appl
575	10	47.6	46	25	US-09-850-716A-459	Sequence 459, Appl	538	10	47.6	48	10	US-09-785-632A-17	Sequence 17, Appl
576	10	47.6	47	25	US-09-897-778-359	Sequence 359, Appl	539	10	47.6	50	9	US-09-765-555-25	Sequence 25, Appl
577	10	47.6	48	26	US-09-793-149-14	Sequence 14, Appl	540	10	47.6	50	9	US-09-765-555-25	Sequence 25, Appl
578	10	47.6	49	26	US-09-818-879-14	Sequence 14, Appl	541	10	47.6	50	9	US-09-825-805-92	Sequence 92, Appl
579	10	47.6	50	26	US-09-211-755A-14	Sequence 14, Appl	542	10	47.6	16	10	US-09-942-109-11	Sequence 11, Appl
580	10	47.6	51	26	US-09-944-411-45	Sequence 45, Appl	543	10	47.6	17	9	US-09-825-805-445	Sequence 445, Appl
581	10	47.6	52	26	US-09-935-721-19	Sequence 19, Appl	544	10	47.6	17	9	US-09-825-805-448	Sequence 448, Appl
582	10	47.6	53	27	US-09-878-840A-9	Sequence 9, Appl	545	10	47.6	17	9	US-09-825-805-475	Sequence 475, Appl
583	10	47.6	54	27	US-09-878-840A-10	Sequence 10, Appl	546	10	47.6	17	9	US-09-825-805-717	Sequence 717, Appl
584	10	47.6	55	27	US-10-114-893-261	Sequence 261, Appl	547	10	47.6	17	9	US-09-825-805-845	Sequence 845, Appl
585	10	47.6	56	27	US-09-942-467A-89	Sequence 89, Appl	548	10	47.6	17	9	US-10-060-756A-233	Sequence 233, Appl
586	10	47.6	57	28	US-09-942-467A-98	Sequence 98, Appl	549	10	47.6	17	9	US-10-060-756A-240	Sequence 240, Appl
587	10	47.6	58	10	US-09-736-864-9	Sequence 9, Appl	550	10	47.6	19	9	US-09-918-156-19	Sequence 19, Appl
588	10	47.6	59	10	US-09-037-653-50	Sequence 50, Appl	551	10	47.6	19	9	US-09-918-156-21	Sequence 21, Appl
589	10	47.6	60	29	US-09-037-653-54	Sequence 54, Appl	552	10	47.6	19	9	US-10-067-790-27	Sequence 27, Appl
590	10	47.6	61	29	US-09-817-513A-5	Sequence 5, Appl	553	10	47.6	19	9	US-10-067-892-27	Sequence 27, Appl
591	10	47.6	62	29	US-09-745-763-60	Sequence 60, Appl	554	10	47.6	19	9	US-09-539-382-27	Sequence 27, Appl
592	10	47.6	63	29	US-09-976-674-45	Sequence 45, Appl	555	10	47.6	21	9	US-10-067-893-27	Sequence 27, Appl
593	10	47.6	64	30	US-09-870-379-19	Sequence 19, Appl	556	10	47.6	21	9	US-10-060-301-151	Sequence 151, Appl
594	10	47.6	65	30	US-09-891-432A-30	Sequence 30, Appl	557	10	47.6	21	10	US-09-765-081-188	Sequence 188, Appl
595	10	47.6	66	30	US-09-934-909-17	Sequence 17, Appl	558	10	47.6	21	10	US-09-765-081-188	Sequence 42, Appl
596	10	47.6	67	30	US-09-792-439-5	Sequence 5, Appl	559	10	47.6	21	10	US-09-350-259-48	Sequence 48, Appl
597	10	47.6	68	31	US-09-801-274-23	Sequence 24, Appl	560	10	47.6	23	9	US-09-905-558C-10	Sequence 10, Appl
598	10	47.6	69	31	US-09-801-274-850	Sequence 850, Appl	561	10	47.6	23	12	US-10-005-073-10	Sequence 10, Appl
599	10	47.6	70	31	US-09-801-274-1043	Sequence 1043, Appl	562	10	47.6	24	9	US-09-978-295A-439	Sequence 439, Appl
600	10	47.6	71	31	US-09-801-274-1090	Sequence 1090, Appl	563	10	47.6	24	9	US-09-978-192A-439	Sequence 439, Appl
601	10	47.6	72	31	US-09-801-274-1384	Sequence 1384, Appl	564	10	47.6	24	9	US-09-990-832A-139	Sequence 439, Appl
602	10	47.6	73	31	US-09-801-274-1401	Sequence 1401, Appl	565	10	47.6	24	9	US-09-990-832A-139	Sequence 439, Appl
603	10	47.6	74	31	US-09-801-274-1447	Sequence 1447, Appl	566	10	47.6	24	9	US-09-978-189-439	Sequence 439, Appl
604	10	47.6	75	31	US-09-801-274-1657	Sequence 1657, Appl	567	10	47.6	24	9	US-09-978-608A-439	Sequence 439, Appl
605	10	47.6	76	31	US-09-901-747-15	Sequence 15, Appl	568	10	47.6	24	10	US-09-755-830-15	Sequence 15, Appl
606	10	47.6	77	32	US-09-334-924A-17	Sequence 17, Appl	569	10	47.6	25	9	US-10-033-297-72	Sequence 72, Appl
607	10	47.6	78	32	US-09-334-924A-17	Sequence 17, Appl	570	10	47.6	25	9	US-09-940-244-72	Sequence 22, Appl
608	10	47.6	79	33	US-09-988-462-81	Sequence 81, Appl	571	10	47.6	25	9	US-10-060-756A-2240	Sequence 2240, Appl
609	10	47.6	80	33	US-09-056-160B-98	Sequence 98, Appl	572	10	47.6	25	10	US-09-060-756A-2245	Sequence 2245, Appl
610	10	47.6	81	34	US-09-828-410-26	Sequence 51, Appl	573	10	47.6	25	10	US-09-866-108-10789	Sequence 10789, Appl
611	10	47.6	82	34	US-09-828-410-38	Sequence 38, Appl	574	10	47.6	25	10	US-09-866-108-10791	Sequence 10791, Appl
612	10	47.6	83	34	US-09-828-410-38	Sequence 38, Appl	575	10	47.6	25	10	US-09-866-108-10791	Sequence 10791, Appl

c 677	9.8	46.7	25	10	US-09-866-108-10792	Sequence 10792, A	750	9.8	46.7	36	10	US-09-859-214-5	Sequence 5, Appl
c 678	9.8	46.7	25	10	US-09-027-287-22	Sequence 22, Appl	c 751	9.8	46.7	36	10	US-09-306-417-16	Sequence 16, Appl
c 679	9.8	46.7	25	10	US-09-027-287-26	Sequence 26, Appl	c 752	9.8	46.7	36	12	US-10-068-067-3	Sequence 3, Appl
c 680	9.8	46.7	25	10	US-09-027-287-40	Sequence 40, Appl	c 753	9.8	46.7	37	9	US-09-900-379-40	Sequence 40, Appl
c 681	9.8	46.7	25	10	US-09-252-656A-22	Sequence 22, Appl	c 754	9.8	46.7	37	10	US-09-848-164-40	Sequence 40, Appl
c 682	9.8	46.7	25	10	US-09-252-656A-26	Sequence 26, Appl	c 755	9.8	46.7	37	10	US-09-766-478A-4	Sequence 4, Appl
c 683	9.8	46.7	25	10	US-09-252-656A-40	Sequence 40, Appl	c 756	9.8	46.7	37	10	US-09-791-171-45	Sequence 45, Appl
c 684	9.8	46.7	26	8	US-08-900-220C-26	Sequence 30, Appl	c 757	9.8	46.7	37	10	US-09-858-217-17	Sequence 17, Appl
c 685	9.8	46.7	26	9	US-09-928-457-51	Sequence 51, Appl	c 758	9.8	46.7	37	10	US-09-976-667-4	Sequence 4, Appl
c 686	9.8	46.7	26	9	US-09-843-250-62	Sequence 62, Appl	c 759	9.8	46.7	37	10	US-09-974-422-13	Sequence 13, Appl
c 687	9.8	46.7	26	9	US-09-875-221A-41	Sequence 41, Appl	c 760	9.8	46.7	38	10	US-09-286-240-10	Sequence 10, Appl
c 688	9.8	46.7	26	10	US-09-944-411-46	Sequence 46, Appl	c 761	9.8	46.7	38	10	US-09-241-235-61	Sequence 61, Appl
c 689	9.8	46.7	26	10	US-09-151-999-26	Sequence 26, Appl	c 762	9.8	46.7	38	10	US-09-797-518A-61	Sequence 61, Appl
c 690	9.8	46.7	27	10	US-09-949-559-41	Sequence 41, Appl	c 763	9.8	46.7	39	9	US-10-000-512-24	Sequence 24, Appl
c 691	9.8	46.7	27	9	US-09-925-664-16	Sequence 16, Appl	c 764	9.8	46.7	39	9	US-09-900-379-47	Sequence 47, Appl
c 692	9.8	46.7	27	9	US-10-060-990-46	Sequence 46, Appl	c 765	9.8	46.7	39	9	US-09-818-901-23	Sequence 23, Appl
c 693	9.8	46.7	27	9	US-09-861-257-26	Sequence 26, Appl	c 766	9.8	46.7	39	9	US-10-126-880-55	Sequence 55, Appl
c 694	9.8	46.7	27	10	US-09-919-603-20	Sequence 20, Appl	c 767	9.8	46.7	39	9	US-10-147-284-8	Sequence 8, Appl
c 695	9.8	46.7	27	10	US-09-943-906-8	Sequence 8, Appl	c 768	9.8	46.7	39	10	US-09-822-250-27	Sequence 27, Appl
c 696	9.8	46.7	28	9	US-10-156-634A-13	Sequence 13, Appl	c 769	9.8	46.7	39	10	US-09-848-164-47	Sequence 47, Appl
c 697	9.8	46.7	28	9	US-09-967-719C-18	Sequence 18, Appl	c 770	9.8	46.7	39	10	US-09-784-990-23	Sequence 23, Appl
c 698	9.8	46.7	28	9	US-09-940-244-399	Sequence 399, Appl	c 771	9.8	46.7	39	10	US-09-804-615-41	Sequence 41, Appl
c 699	9.8	46.7	28	9	US-10-146-427-40	Sequence 40, Appl	c 772	9.8	46.7	39	10	US-09-263-959-196	Sequence 196, Appl
c 700	9.8	46.7	28	10	US-09-027-287-28	Sequence 28, Appl	c 773	9.8	46.7	40	10	US-09-819-097-13	Sequence 13, Appl
c 701	9.8	46.7	28	10	US-09-027-287-37	Sequence 37, Appl	c 774	9.8	46.7	41	9	US-10-016-283-21	Sequence 21, Appl
c 702	9.8	46.7	28	10	US-09-027-287-45	Sequence 45, Appl	c 775	9.8	46.7	41	9	US-10-158-684-7	Sequence 7, Appl
c 703	9.8	46.7	28	10	US-09-252-656A-28	Sequence 28, Appl	c 776	9.8	46.7	41	9	US-10-158-711-7	Sequence 7, Appl
c 704	9.8	46.7	28	10	US-09-252-656A-47	Sequence 47, Appl	c 777	9.8	46.7	42	9	US-10-091-538-5	Sequence 5, Appl
c 705	9.8	46.7	28	10	US-09-252-656A-45	Sequence 45, Appl	c 778	9.8	46.7	42	9	US-09-861-257-27	Sequence 27, Appl
c 706	9.8	46.7	29	9	US-09-925-664-77	Sequence 77, Appl	c 779	9.8	46.7	43	9	US-09-992-028-6	Sequence 6, Appl
c 707	9.8	46.7	29	10	US-09-736-959A-26	Sequence 26, Appl	c 780	9.8	46.7	43	10	US-09-727-411-41	Sequence 41, Appl
c 708	9.8	46.7	29	10	US-09-896-915-27	Sequence 27, Appl	c 781	9.8	46.7	43	12	US-10-027-075-20	Sequence 20, Appl
c 709	9.8	46.7	30	8	US-08-987-689A-27	Sequence 27, Appl	c 782	9.8	46.7	44	10	US-09-241-235-62	Sequence 62, Appl
c 710	9.8	46.7	30	9	US-10-136-224-29	Sequence 29, Appl	c 783	9.8	46.7	44	10	US-09-797-518A-62	Sequence 62, Appl
c 711	9.8	46.7	30	9	US-09-789-054A-68	Sequence 68, Appl	c 784	9.8	46.7	44	10	US-09-292-973-14	Sequence 14, Appl
c 712	9.8	46.7	30	9	US-09-810-506-12	Sequence 12, Appl	c 785	9.8	46.7	44	10	US-09-761-544A-15	Sequence 15, Appl
c 713	9.8	46.7	30	9	US-10-112-706-24	Sequence 24, Appl	c 786	9.8	46.7	45	9	US-09-905-291A-280	Sequence 280, Appl
c 714	9.8	46.7	30	10	US-09-941-094A-1	Sequence 1, Appl	c 787	9.8	46.7	45	9	US-09-902-853-280	Sequence 280, Appl
c 715	9.8	46.7	30	10	US-09-939-119-1	Sequence 1, Appl	c 788	9.8	46.7	45	9	US-09-907-824-280	Sequence 280, Appl
c 716	9.8	46.7	31	9	US-09-912-263-439	Sequence 439, Appl	c 789	9.8	46.7	45	9	US-09-907-841-280	Sequence 280, Appl
c 717	9.8	46.7	31	10	US-09-895-072-49	Sequence 49, Appl	c 790	9.8	46.7	45	9	US-09-904-011-280	Sequence 280, Appl
c 718	9.8	46.7	31	10	US-09-801-274-887	Sequence 887, Appl	c 791	9.8	46.7	45	9	US-09-906-742-280	Sequence 280, Appl
c 719	9.8	46.7	31	10	US-09-801-274-940	Sequence 940, Appl	c 792	9.8	46.7	45	9	US-09-906-838-280	Sequence 280, Appl
c 720	9.8	46.7	31	10	US-09-801-274-1145	Sequence 1145, Appl	c 793	9.8	46.7	45	9	US-09-907-613-280	Sequence 280, Appl
c 721	9.8	46.7	31	10	US-09-801-274-1425	Sequence 1425, Appl	c 794	9.8	46.7	45	9	US-09-907-942-280	Sequence 280, Appl
c 722	9.8	46.7	31	10	US-09-801-274-1490	Sequence 1490, Appl	c 795	9.8	46.7	45	9	US-09-904-820-280	Sequence 280, Appl
c 723	9.8	46.7	31	10	US-09-801-274-1746	Sequence 1746, Appl	c 796	9.8	46.7	45	9	US-09-904-859-280	Sequence 280, Appl
c 724	9.8	46.7	31	10	US-09-006-298-11	Sequence 11, Appl	c 797	9.8	46.7	45	9	US-09-909-204-280	Sequence 280, Appl
c 725	9.8	46.7	31	10	US-09-870-122-5	Sequence 5, Appl	c 798	9.8	46.7	45	9	US-09-904-786-280	Sequence 280, Appl
c 726	9.8	46.7	31	10	US-09-737-626A-21	Sequence 21, Appl	c 799	9.8	46.7	45	9	US-09-906-636-280	Sequence 280, Appl
c 727	9.8	46.7	31	10	US-09-986-552-49	Sequence 49, Appl	c 800	9.8	46.7	45	9	US-09-906-700-280	Sequence 280, Appl
c 728	9.8	46.7	32	9	US-10-133-912-5	Sequence 5, Appl	c 801	9.8	46.7	45	9	US-09-902-903-280	Sequence 280, Appl
c 729	9.8	46.7	32	10	US-09-027-287-35	Sequence 35, Appl	c 802	9.8	46.7	45	9	US-09-903-749A-280	Sequence 280, Appl
c 730	9.8	46.7	32	10	US-09-252-656A-35	Sequence 35, Appl	c 803	9.8	46.7	45	9	US-09-903-786-280	Sequence 280, Appl
c 731	9.8	46.7	32	10	US-09-944-411-23	Sequence 23, Appl	c 804	9.8	46.7	45	10	US-09-909-420-280	Sequence 280, Appl
c 732	9.8	46.7	32	10	US-09-759-352-23	Sequence 23, Appl	c 805	9.8	46.7	45	10	US-09-909-088A-280	Sequence 280, Appl
c 733	9.8	46.7	33	9	US-08-462-414-5	Sequence 5, Appl	c 806	9.8	46.7	45	12	US-10-029-907-12	Sequence 12, Appl
c 734	9.8	46.7	33	9	US-09-955-444-17	Sequence 17, Appl	c 807	9.8	46.7	45	12	US-10-029-907-16	Sequence 16, Appl
c 735	9.8	46.7	33	9	US-10-259-521-5	Sequence 5, Appl	c 808	9.8	46.7	46	9	US-10-125-789A-1	Sequence 1, Appl
c 736	9.8	46.7	33	10	US-09-027-287-18	Sequence 18, Appl	c 809	9.8	46.7	46	10	US-09-263-959-109	Sequence 109, Appl
c 737	9.8	46.7	33	10	US-09-252-656A-18	Sequence 18, Appl	c 810	9.8	46.7	46	9	US-09-865-960-11	Sequence 11, Appl
c 738	9.8	46.7	33	10	US-09-903-456-114	Sequence 114, Appl	c 811	9.8	46.7	48	9	US-09-864-785-4021	Sequence 4021, Appl
c 739	9.8	46.7	34	9	US-09-430-029-9	Sequence 9, Appl	c 812	9.8	46.7	48	9	US-09-864-785-4118	Sequence 4118, Appl
c 740	9.8	46.7	34	10	US-10-163-638-9	Sequence 9, Appl	c 813	9.8	46.7	48	10	US-09-056-160B-48	Sequence 48, Appl
c 741	9.8	46.7	34	10	US-09-027-287-33	Sequence 33, Appl	c 814	9.8	46.7	49	9	US-10-006-009-4	Sequence 4, Appl
c 742	9.8	46.7	34	10	US-09-252-656A-33	Sequence 33, Appl	c 815	9.8	46.7	49	9	US-10-016-284-23	Sequence 23, Appl
c 743	9.8	46.7	35	9	US-10-032-241A-12	Sequence 12, Appl	c 816	9.8	46.7	50	9	US-09-801-371A-9	Sequence 9, Appl
c 744	9.8	46.7	35	10	US-09-766-478A-16	Sequence 16, Appl	c 817	9.8	46.7	17	9	US-10-076-490-1	Sequence 1, Appl
c 745	9.8	46.7	36	9	US-09-810-906-14	Sequence 14, Appl	c 818	9.8	46.7	17	9	US-09-825-805-563	Sequence 563, Appl
c 746	9.8	46.7	36	9	US-09-900-379-26	Sequence 26, Appl	c 819	9.8	46.7	17	9	US-09-825-805-861	Sequence 861, Appl
c 747	9.8	46.7	36	10	US-09-848-164-26	Sequence 26, Appl	c 820	9.8	46.7	17	9	US-09-961-077-706	Sequence 706, Appl
c 748	9.8	46.7	36	10	US-09-740-668A-18	Sequence 18, Appl	c 821	9.8	46.7	17	10	US-09-866-108-690	Sequence 690, Appl
c 749	9.8	46.7	36	10	US-09-766-478A-6	Sequence 6, Appl	c 822	9.8	46.7	17	10	US-09-866-108-728	Sequence 728, Appl

c 823	9.6	45.7	17	10	US-09-866-108-7229	Sequence 7229, Ap	c 896	9.6	45.7	30	9	US-10-060-425-6	Sequence 6, Appl
c 824	9.6	45.7	17	10	US-09-866-108-7875	Sequence 7875, Ap	c 897	9.6	45.7	30	9	US-09-891-342A-42	Sequence 42, Appl
c 825	9.6	45.7	17	10	US-09-866-108-7876	Sequence 7876, Ap	c 898	9.6	45.7	30	10	US-09-749-494-5	Sequence 5, Appl
c 826	9.6	45.7	18	10	US-09-969-474-3227	Sequence 3227, Ap	c 899	9.6	45.7	30	10	US-09-904-621-3	Sequence 3, Appl
c 827	9.6	45.7	19	9	US-09-894-467-12	Sequence 12, Appl	c 900	9.6	45.7	30	10	US-09-804-682-95	Sequence 95, Appl
c 828	9.6	45.7	20	9	US-09-794-689-3	Sequence 3, Appl	c 901	9.6	45.7	30	12	US-10-097-340-5	Sequence 5, Appl
c 829	9.6	45.7	20	9	US-09-963-875-48	Sequence 48, Appl	c 902	9.6	45.7	31	9	US-10-023-610-76	Sequence 76, Appl
c 830	9.6	45.7	20	9	US-10-060-401-153	Sequence 153, Appl	c 903	9.6	45.7	31	9	US-10-023-610-78	Sequence 78, Appl
c 831	9.6	45.7	20	9	US-09-824-322H-265	Sequence 265, Appl	c 904	9.6	45.7	31	9	US-09-288-971-21	Sequence 21, Appl
c 832	9.6	45.7	20	9	US-09-824-322H-422	Sequence 422, Appl	c 905	9.6	45.7	31	9	US-09-912-263-213	Sequence 213, Appl
c 833	9.6	45.7	20	9	US-09-863-045A-15	Sequence 15, Appl	c 906	9.6	45.7	31	9	US-09-912-263-401	Sequence 401, Appl
c 834	9.6	45.7	20	9	US-09-932-400-66	Sequence 66, Appl	c 907	9.6	45.7	31	9	US-09-779-152-76	Sequence 76, Appl
c 835	9.6	45.7	20	9	US-09-932-400-70	Sequence 70, Appl	c 908	9.6	45.7	31	9	US-09-779-152-78	Sequence 78, Appl
c 836	9.6	45.7	20	9	US-10-136-891-46	Sequence 46, Appl	c 909	9.6	45.7	31	10	US-09-801-274-497	Sequence 497, Appl
c 837	9.6	45.7	20	10	US-09-735-995-92	Sequence 92, Appl	c 910	9.6	45.7	31	10	US-09-801-274-581	Sequence 581, Appl
c 838	9.6	45.7	20	10	US-09-733-294A-48	Sequence 38, Appl	c 911	9.6	45.7	31	10	US-09-801-274-960	Sequence 960, Appl
c 839	9.6	45.7	20	10	US-09-733-294A-49	Sequence 39, Appl	c 912	9.6	45.7	31	10	US-09-801-274-985	Sequence 985, Appl
c 840	9.6	45.7	20	10	US-09-854-884-295	Sequence 295, Appl	c 913	9.6	45.7	31	10	US-09-801-274-1419	Sequence 1419, Appl
c 841	9.6	45.7	20	10	US-09-854-884-333	Sequence 333, Appl	c 914	9.6	45.7	31	10	US-09-801-274-1421	Sequence 1421, Appl
c 842	9.6	45.7	20	10	US-09-800-641-114	Sequence 114, Appl	c 915	9.6	45.7	31	10	US-09-801-274-1656	Sequence 1656, Appl
c 843	9.6	45.7	20	10	US-09-753-143-3	Sequence 3, Appl	c 916	9.6	45.7	32	10	US-09-944-277A-8	Sequence 8, Appl
c 844	9.6	45.7	20	10	US-09-745-605-32	Sequence 32, Appl	c 917	9.6	45.7	33	9	US-09-756-854-13	Sequence 13, Appl
c 845	9.6	45.7	20	10	US-09-780-172-28	Sequence 28, Appl	c 918	9.6	45.7	33	9	US-10-041-574-13	Sequence 13, Appl
c 846	9.6	45.7	20	10	US-09-791-243-62	Sequence 62, Appl	c 919	9.6	45.7	33	9	US-09-996-634-148	Sequence 148, Appl
c 847	9.6	45.7	21	9	US-10-023-610-75	Sequence 75, Appl	c 920	9.6	45.7	33	9	US-10-147-284-6	Sequence 6, Appl
c 848	9.6	45.7	21	9	US-10-023-610-77	Sequence 77, Appl	c 921	9.6	45.7	33	9	US-10-147-284-6	Sequence 6, Appl
c 849	9.6	45.7	21	9	US-09-932-400-97	Sequence 97, Appl	c 922	9.6	45.7	33	10	US-09-784-990-29	Sequence 29, Appl
c 850	9.6	45.7	21	9	US-04-779-152-75	Sequence 75, Appl	c 923	9.6	45.7	33	10	US-09-901-904-7	Sequence 7, Appl
c 851	9.6	45.7	21	9	US-09-779-152-77	Sequence 77, Appl	c 924	9.6	45.7	33	10	US-09-903-456-11	Sequence 11, Appl
c 852	9.6	45.7	21	10	US-09-966-147-32	Sequence 32, Appl	c 925	9.6	45.7	33	12	US-10-116-064-10	Sequence 10, Appl
c 853	9.6	45.7	22	9	US-09-951-402-34	Sequence 34, Appl	c 926	9.6	45.7	34	9	US-09-997-424-3	Sequence 3, Appl
c 854	9.6	45.7	22	10	US-09-951-401-34	Sequence 34, Appl	c 927	9.6	45.7	35	9	US-09-997-424-3	Sequence 3, Appl
c 855	9.6	45.7	22	10	US-09-922-101-34	Sequence 34, Appl	c 928	9.6	45.7	35	9	US-09-996-529-3	Sequence 3, Appl
c 856	9.6	45.7	22	12	US-10-027-348-3	Sequence 3, Appl	c 929	9.6	45.7	35	10	US-09-214-371-81	Sequence 81, Appl
c 857	9.6	45.7	23	9	US-09-808-602-29	Sequence 29, Appl	c 930	9.6	45.7	35	10	US-09-810-502-27	Sequence 27, Appl
c 858	9.6	45.7	23	9	US-09-725-926A-6	Sequence 6, Appl	c 931	9.6	45.7	35	10	US-09-996-630-3	Sequence 3, Appl
c 859	9.6	45.7	24	9	US-10-113-877-129	Sequence 129, Appl	c 932	9.6	45.7	35	10	US-09-997-424-3	Sequence 3, Appl
c 860	9.6	45.7	24	9	US-10-006-856A-255	Sequence 255, Appl	c 933	9.6	45.7	36	9	US-10-051-325-27	Sequence 27, Appl
c 861	9.6	45.7	24	10	US-09-785-632A-100	Sequence 100, Appl	c 934	9.6	45.7	36	9	US-10-079-802-2	Sequence 2, Appl
c 862	9.6	45.7	24	10	US-09-900-527-4	Sequence 4, Appl	c 935	9.6	45.7	36	9	US-10-079-802-12	Sequence 12, Appl
c 863	9.6	45.7	25	9	US-10-011-095-30	Sequence 30, Appl	c 936	9.6	45.7	36	9	US-09-854-286-26	Sequence 26, Appl
c 864	9.6	45.7	25	10	US-09-735-995-16	Sequence 16, Appl	c 937	9.6	45.7	36	9	US-09-818-991-31	Sequence 31, Appl
c 865	9.6	45.7	25	10	US-09-866-108-12120	Sequence 12120, A	c 938	9.6	45.7	36	10	US-09-822-250-34	Sequence 34, Appl
c 866	9.6	45.7	25	10	US-09-866-108-12121	Sequence 12121, A	c 939	9.6	45.7	36	10	US-09-350-259-31	Sequence 31, Appl
c 867	9.6	45.7	25	10	US-09-866-108-12767	Sequence 12767, A	c 940	9.6	45.7	37	9	US-09-942-891-3	Sequence 3, Appl
c 868	9.6	45.7	25	10	US-09-866-108-12768	Sequence 12768, A	c 941	9.6	45.7	37	10	US-09-780-566-1	Sequence 1, Appl
c 869	9.6	45.7	25	10	US-09-866-108-12769	Sequence 12769, A	c 942	9.6	45.7	38	10	US-09-349-954A-13	Sequence 13, Appl
c 870	9.6	45.7	25	10	US-09-866-108-12770	Sequence 12770, A	c 943	9.6	45.7	38	10	US-09-907-007-13	Sequence 13, Appl
c 871	9.6	45.7	25	10	US-09-866-108-12771	Sequence 12771, A	c 944	9.6	45.7	39	10	US-09-727-411-27	Sequence 27, Appl
c 872	9.6	45.7	25	10	US-09-866-108-12772	Sequence 12772, A	c 945	9.6	45.7	39	10	US-09-901-904-5	Sequence 5, Appl
c 873	9.6	45.7	25	10	US-09-866-108-12773	Sequence 12773, A	c 946	9.6	45.7	39	12	US-10-116-064-8	Sequence 8, Appl
c 874	9.6	45.7	25	10	US-09-866-108-12774	Sequence 12774, A	c 947	9.6	45.7	40	9	US-10-079-802-5	Sequence 5, Appl
c 875	9.6	45.7	25	10	US-09-866-108-12775	Sequence 12775, A	c 948	9.6	45.7	40	9	US-10-079-802-16	Sequence 16, Appl
c 876	9.6	45.7	25	10	US-09-866-108-12776	Sequence 12776, A	c 949	9.6	45.7	40	9	US-09-938-433-9	Sequence 9, Appl
c 877	9.6	45.7	25	10	US-09-780-053-15	Sequence 15, Appl	c 950	9.6	45.7	40	9	US-09-465-925-10	Sequence 10, Appl
c 878	9.6	45.7	25	10	US-09-779-308-15	Sequence 15, Appl	c 951	9.6	45.7	40	10	US-09-788-209A-9	Sequence 9, Appl
c 879	9.6	45.7	25	10	US-09-997-664-96	Sequence 96, Appl	c 952	9.6	45.7	40	10	US-09-941-184-6	Sequence 6, Appl
c 880	9.6	45.7	25	12	US-10-005-073-1	Sequence 1, Appl	c 953	9.6	45.7	41	9	US-10-043-574-101	Sequence 101, Appl
c 881	9.6	45.7	26	9	US-09-931-732-24	Sequence 24, Appl	c 954	9.6	45.7	41	9	US-10-043-574-102	Sequence 102, Appl
c 882	9.6	45.7	26	9	US-10-109-498-19	Sequence 19, Appl	c 955	9.6	45.7	42	9	US-10-002-050-26	Sequence 26, Appl
c 883	9.6	45.7	26	9	US-10-109-498-20	Sequence 20, Appl	c 956	9.6	45.7	42	9	US-10-002-304-26	Sequence 26, Appl
c 884	9.6	45.7	27	10	US-09-815-498-8	Sequence 8, Appl	c 957	9.6	45.7	42	9	US-10-107-649-6	Sequence 6, Appl
c 885	9.6	45.7	28	9	US-10-125-332-2	Sequence 2, Appl	c 958	9.6	45.7	42	12	US-10-003-152-26	Sequence 26, Appl
c 886	9.6	45.7	28	10	US-09-804-987-13	Sequence 13, Appl	c 959	9.6	45.7	43	10	US-09-766-898-12	Sequence 12, Appl
c 887	9.6	45.7	28	10	US-09-736-960-134	Sequence 134, Appl	c 960	9.6	45.7	43	10	US-09-766-916-12	Sequence 12, Appl
c 888	9.6	45.7	28	10	US-09-951-470-9	Sequence 9, Appl	c 961	9.6	45.7	43	10	US-09-951-622-4	Sequence 4, Appl
c 889	9.6	45.7	28	10	US-09-971-118-3	Sequence 3, Appl	c 962	9.6	45.7	44	10	US-09-951-622-8	Sequence 8, Appl
c 890	9.6	45.7	28	10	US-09-971-845-5	Sequence 5, Appl	c 963	9.6	45.7	44	10	US-09-891-735-7	Sequence 7, Appl
c 891	9.6	45.7	28	10	US-09-274-164E-9	Sequence 9, Appl	c 964	9.6	45.7	45	10	US-09-735-995-96	Sequence 96, Appl
c 892	9.6	45.7	28	10	US-09-274-164E-10	Sequence 10, Appl	c 965	9.6	45.7	46	9	US-09-990-046-28	Sequence 28, Appl
c 893	9.6	45.7	28	10	US-09-274-164E-11	Sequence 11, Appl	c 966	9.6	45.7	46	10	US-09-766-898-14	Sequence 14, Appl
c 894	9.6	45.7	29	10	US-09-973-132-8	Sequence 8, Appl	c 967	9.6	45.7	46	10	US-09-766-898-25	Sequence 25, Appl
c 895	9.6	45.7	29	10	US-09-973-132-9	Sequence 9, Appl	c 968	9.6	45.7	46	10	US-09-766-916-14	Sequence 14, Appl

c 969	9.6	45.7	46	10	US-09-766-916, 25	Sequence 25, App
c 970	9.6	45.7	46	10	US-09-904-536, 6	Sequence 6, App1
c 971	9.6	45.7	46	10	US-09-904-536, 7	Sequence 7, App1
c 972	9.6	45.7	48	9	US-09-916-494A-48	Sequence 48, App1
c 973	9.6	45.7	48	9	US-09-864-785, 35-49	Sequence 35-49, Ap
c 974	9.6	45.7	48	9	US-09-465-925, 6	Sequence 6, App1
c 975	9.6	45.7	48	10	US-09-920-171, 44	Sequence 44, App1
c 976	9.6	45.7	50	9	US-09-103-002, 11	Sequence 11, App1
c 977	9.6	45.7	50	9	US-09-765, 55-58	Sequence 28, App1
c 978	9.6	45.7	50	9	US-09-765, 55-58	Sequence 28, App1
c 979	9.6	45.7	50	10	US-09-949, 49-8	Sequence 8, App1
c 980	9.6	44.8	15	9	US-09-825-805, 103	Sequence 103, App
c 981	9.4	44.8	16	10	US-09-917-138, 5	Sequence 6, App1
c 982	9.4	44.8	17	9	US-09-864-785, 462	Sequence 462, App
c 983	9.4	44.8	17	9	US-09-864-785, 463	Sequence 463, App
c 984	9.4	44.8	17	9	US-09-864-785, 464	Sequence 464, App
c 985	9.4	44.8	17	9	US-09-864-785, 465	Sequence 465, App
c 986	9.4	44.8	17	9	US-09-864-785, 637	Sequence 637, App
c 987	9.4	44.8	17	9	US-09-864-785, 638	Sequence 638, App
c 988	9.4	44.8	17	9	US-09-864-785, 1575	Sequence 1575, Ap
c 989	9.4	44.8	17	9	US-09-864-785, 1576	Sequence 1576, Ap
c 990	9.4	44.8	17	9	US-09-864-785, 1679	Sequence 1679, Ap
c 991	9.4	44.8	17	9	US-09-864-785, 1680	Sequence 1680, Ap
c 992	9.4	44.8	17	9	US-09-864-785, 2954	Sequence 2954, Ap
c 993	9.4	44.8	17	9	US-09-825-805, 464	Sequence 464, App
c 994	9.4	44.8	17	9	US-09-825-805, 488	Sequence 488, App
c 995	9.4	44.8	17	9	US-10-060-756A-232	Sequence 232, App
c 996	9.4	44.8	17	9	US-10-060-756A-232	Sequence 232, App
c 997	9.4	44.8	17	10	US-09-866-108, 2589	Sequence 2589, Ap
c 998	9.4	44.8	17	10	US-09-866-108, 2590	Sequence 2590, Ap
c 999	9.4	44.8	17	10	US-09-866-108, 2591	Sequence 2591, Ap
c 1000	9.4	44.8	17	10	US-09-866-108, 2592	Sequence 2592, Ap

## ALUMINUM

```

RESULT 1
US 09 840 479 45/a
? Sequence 45, Application US/09840479
? Patent No. US20010025480A1
? GENERAL INFORMATION:
? APPLICANT: Clanco, Virginia
? TITLE OF INVENTION: Family of Maize PR 1 Genes And Promoters
? FILE REFERENCE: 9/18 42, 045719/1/5219
? CURRENT APPLICATION NUMBER: US/09/840,479
? CURRENT FILING DATE: 2001 04 24
? PRIOR APPLICATION NUMBER: 09/257,584
? PRIOR FILING DATE: 1999 02 25
? NUMBER OF SEQ IDS: 47
? SOFTWARE: Patent In Ver. 2.0
? SEQ ID No 45
? LENGTH: 24
? TYPE: DNA
? ORGANISM: Artificial Sequence
? FEATURE:
? OTHER INFORMATION: Description of Artificial Sequence; Maize
US 09 840 479-45
Query Match 65.7%; Score 14.8; Id 10; Length 24;
Best Local Similarity 88.2%; Pred. No. 1.5e+04;
Matches 15; Conservative 0; Mismatches 2; Gaps 0;

```

```

1 GENERAL INFORMATION:
2 APPLICATION: Crane, Virginia
3 TITLE OF INVENTION: Family of Matrix-Pr 1 Genes And Promoters
4 FILE REFERENCE: 5718 52, 055716/175219
5 CURRENT APPLICATION NUMBER: US/09/840,479
6 CURRENT FILING DATE: 2001-04-24
7 PRIOR APPLICATION NUMBER: 09/257,484
8 PRIOR FILING DATE: 1999-02-25
9 NUMBER OF SEQ ID NOS: 47
10 SOFTWARE: Patent In Ver. 2.0
11 SEQ ID NO 26
12 LENGTH: 40
13 TYPE: DNA
14 ORGANISM: Artificial Sequence
15 FEATURE:
16 OTHER INFORMATION: Description of Artificial Sequence: Matrix
17 OTHER INFORMATION: gene specific PCR primer
18 US 09-840-479, 26
19
20 Query Match 65.78; Score 15.8; Dh 10; Length 40
21 Best Local Similarity 88.28; Prod. No. 1,56704;
22 Matches 15; Conservative 0; Mismatches 2; Indels
23
24 QY 4 CCAAGGCAAGCAAGGCG 20
25 111111111 1111
26 17 CCAAGGCAAGCAAGGCG 1
27
28 RESULT 3
29 US-09-992-598-428
30 Sequence 428, Application US/09092598
31 Patent No. US20020160884A1
32 GENERAL INFORMATION:
33 APPLICATION: Ashkenazi, Avi J.
34 APPLICANT: Baker, Kevin P.
35 APPLICANT: Batstein, David
36 APPLICANT: Besmyer, S. Lee
37 APPLICANT: Batou, Dan L.
38 APPLICANT: Ferrara, Napoleone
39 APPLICANT: Fong, Shuetan
40 APPLICANT: Garber, Hanspeter
41 APPLICANT: Gottschon, Barry E.
42 APPLICANT: Guillard, Audrey
43 APPLICANT: Gadowski, Paul J.
44 APPLICANT: Grimaldi, Christophe
45 APPLICANT: Gurney, Austin L.
46 APPLICANT: Kharin, Izar J.
47 APPLICANT: Napier, Barry A.
48 APPLICANT: Pan, James
49 APPLICANT: Patel, Nicholas F.
50 APPLICANT: Roy, Margaret Ann
51 APPLICANT: Stewart, Timoth A.
52 APPLICANT: Thomas, Daniel
53 APPLICANT: Watmough, Colin K.
54 APPLICANT: Williams, P. Mickey
55 APPLICANT: Wood, William L.
56 APPLICANT: Zhao, Zemin
57 TITLE OF INVENTION: Selected and Transmembrane Polypeptides an
58 FILE REFERENCE: P27401020
59 CURRENT APPLICATION NUMBER: US/09/992,598
60 CURRENT FILING DATE: 2001-11-14
61 PRIOR APPLICATION NUMBER: 60/049787
62 PRIOR FILING DATE: 1997-06-16
63 PRIOR APPLICATION NUMBER: 60/062250
64 PRIOR FILING DATE: 1997-10-17
65 PRIOR APPLICATION NUMBER: 60/065486
66 PRIOR FILING DATE: 1997-11-12
67 PRIOR APPLICATION NUMBER: 60/065411
68 PRIOR FILING DATE: 1997-11-14
69 PRIOR APPLICATION NUMBER: 60/066770
70 PRIOR FILING DATE: 1997-11-24
71 PRIOR APPLICATION NUMBER: 60/075949

```

[illegible]

1 PRIOR FILING DATE: 1998-07-02  
 2 PRIOR APPLICATION NUMBER: 60/091426  
 3 PRIOR FILING DATE: 1998-07-02  
 4 PRIOR APPLICATION NUMBER: 60/091634  
 5 PRIOR FILING DATE: 1998-07-02  
 6 PRIOR APPLICATION NUMBER: 60/091978  
 7 PRIOR FILING DATE: 1998-07-07  
 8 PRIOR APPLICATION NUMBER: 60/091982  
 9 PRIOR FILING DATE: 1998-07-07  
 10 PRIOR APPLICATION NUMBER: 60/092182  
 11 PRIOR FILING DATE: 1998-07-09

Query Match 63.88; Score 13.4; DB 9; Length 21;

Best Local Similarity 93.4%; Pred. No. 2, 4e+03;

Matches 14; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 2 ACCGATGAGTAAAGCC 16

11111111111111111111

1b 4 ACCGATGAGTAAAGCC 17

#### RESULT 4

US-09-989-293A 428

Sequence 428, Application US/0998293A

Patent No. US2002017716A1

#### GENERAL INFORMATION:

1 APPLICANT: Ashkenazi, Avi J.  
 2 APPLICANT: Baker, Kevin P.  
 3 APPLICANT: Boistelin, David  
 4 APPLICANT: Besnoyers, Luc  
 5 APPLICANT: Eaton, Dan L.  
 6 APPLICANT: Ferrara, Napoleone  
 7 APPLICANT: Fong, Sherman  
 8 APPLICANT: Gerber, Hanspeter  
 9 APPLICANT: Gottschon, Mary E.  
 10 APPLICANT: Godowski, Audrey  
 11 APPLICANT: Godowski, Paul J.  
 12 APPLICANT: Grimaldi, J. Christopher  
 13 APPLICANT: Gurney, Austin L.  
 14 APPLICANT: Kljavin, Ivar J.  
 15 APPLICANT: Napier, Mary A.  
 16 APPLICANT: Pan, James  
 17 APPLICANT: Paoni, Nicholas F.  
 18 APPLICANT: Roy, Margaret Ann  
 19 APPLICANT: Stewart, Timothy A.  
 20 APPLICANT: Tumas, Daniel  
 21 APPLICANT: Watanabe, Colin K.  
 22 APPLICANT: Williams, P. Mickey  
 23 APPLICANT: Wood, William L.  
 24 APPLICANT: Zhang, Zemin  
 25 TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic  
 26 TITLE OF INVENTION: Acids Encoding the Same  
 27 FILE REFERENCE: P27401C66  
 28 CURRENT APPLICATION NUMBER: US/09/989,293A  
 29 CURRENT FILING DATE: 2001-11-20  
 30 PRIOR APPLICATION NUMBER: 60/049787  
 31 PRIOR FILING DATE: 1997-06-16  
 32 PRIOR APPLICATION NUMBER: 60/062250  
 33 PRIOR FILING DATE: 1997-10-17  
 34 PRIOR APPLICATION NUMBER: 60/065186  
 35 PRIOR FILING DATE: 1997-11-12  
 36 PRIOR APPLICATION NUMBER: 60/065411  
 37 PRIOR FILING DATE: 1997-11-14  
 38 PRIOR APPLICATION NUMBER: 60/066770  
 39 PRIOR FILING DATE: 1997-11-24  
 40 PRIOR APPLICATION NUMBER: 60/075945  
 41 PRIOR FILING DATE: 1998-02-25  
 42 PRIOR APPLICATION NUMBER: 60/078910  
 43 PRIOR FILING DATE: 1998-04-20  
 44 PRIOR APPLICATION NUMBER: 60/084322  
 45 PRIOR FILING DATE: 1998-04-28  
 46 PRIOR APPLICATION NUMBER: 60/084600  
 47 PRIOR FILING DATE: 1998-05-07

1 PRIOR APPLICATION NUMBER: 60/087106  
 2 PRIOR FILING DATE: 1998-05-28  
 3 PRIOR APPLICATION NUMBER: 60/087607  
 4 PRIOR FILING DATE: 1998-06-02  
 5 PRIOR APPLICATION NUMBER: 60/087609  
 6 PRIOR FILING DATE: 1998-06-02  
 7 PRIOR APPLICATION NUMBER: 60/087759  
 8 PRIOR FILING DATE: 1998-06-02  
 9 PRIOR APPLICATION NUMBER: 60/087827  
 10 PRIOR FILING DATE: 1998-06-03  
 11 PRIOR APPLICATION NUMBER: 60/088021  
 12 PRIOR FILING DATE: 1998-06-04  
 13 PRIOR APPLICATION NUMBER: 60/088025  
 14 PRIOR FILING DATE: 1998-06-04  
 15 PRIOR APPLICATION NUMBER: 60/088026  
 16 PRIOR FILING DATE: 1998-06-04  
 17 PRIOR APPLICATION NUMBER: 60/088028  
 18 PRIOR FILING DATE: 1998-06-04  
 19 PRIOR APPLICATION NUMBER: 60/088029  
 20 PRIOR FILING DATE: 1998-06-04  
 21 PRIOR APPLICATION NUMBER: 60/088030  
 22 PRIOR FILING DATE: 1998-06-04  
 23 PRIOR APPLICATION NUMBER: 60/088033  
 24 PRIOR FILING DATE: 1998-06-04  
 25 PRIOR APPLICATION NUMBER: 60/088326  
 26 PRIOR FILING DATE: 1998-06-04  
 27 PRIOR APPLICATION NUMBER: 60/088167  
 28 PRIOR FILING DATE: 1998-06-05  
 29 PRIOR APPLICATION NUMBER: 60/088202  
 30 PRIOR FILING DATE: 1998-06-05  
 31 PRIOR APPLICATION NUMBER: 60/088212  
 32 PRIOR FILING DATE: 1998-06-05  
 33 PRIOR APPLICATION NUMBER: 60/088217  
 34 PRIOR FILING DATE: 1998-06-05  
 35 PRIOR APPLICATION NUMBER: 60/088655  
 36 PRIOR FILING DATE: 1998-06-09  
 37 PRIOR APPLICATION NUMBER: 60/088734  
 38 PRIOR FILING DATE: 1998-06-10  
 39 PRIOR APPLICATION NUMBER: 60/088738  
 40 PRIOR FILING DATE: 1998-06-10  
 41 PRIOR APPLICATION NUMBER: 60/088742  
 42 PRIOR FILING DATE: 1998-06-10  
 43 PRIOR APPLICATION NUMBER: 60/088810  
 44 PRIOR FILING DATE: 1998-06-10  
 45 PRIOR APPLICATION NUMBER: 60/088824  
 46 PRIOR FILING DATE: 1998-06-10  
 47 PRIOR APPLICATION NUMBER: 60/088826  
 48 PRIOR FILING DATE: 1998-06-10  
 49 PRIOR APPLICATION NUMBER: 60/088858  
 50 PRIOR FILING DATE: 1998-06-11  
 51 PRIOR APPLICATION NUMBER: 60/088861  
 52 PRIOR FILING DATE: 1998-06-11  
 53 PRIOR APPLICATION NUMBER: 60/088876  
 54 PRIOR FILING DATE: 1998-06-11  
 55 PRIOR APPLICATION NUMBER: 60/089105  
 56 PRIOR FILING DATE: 1998-06-12  
 57 PRIOR APPLICATION NUMBER: 60/089440  
 58 PRIOR FILING DATE: 1998-06-16  
 59 PRIOR APPLICATION NUMBER: 60/089512  
 60 PRIOR FILING DATE: 1998-06-16  
 61 PRIOR APPLICATION NUMBER: 60/089514  
 62 PRIOR FILING DATE: 1998-06-16  
 63 PRIOR APPLICATION NUMBER: 60/089532  
 64 PRIOR FILING DATE: 1998-06-17  
 65 PRIOR APPLICATION NUMBER: 60/089538  
 66 PRIOR FILING DATE: 1998-06-17  
 67 PRIOR APPLICATION NUMBER: 60/089598  
 68 PRIOR FILING DATE: 1998-06-17  
 69 PRIOR APPLICATION NUMBER: 60/089599  
 70 PRIOR FILING DATE: 1998-06-17  
 71 PRIOR APPLICATION NUMBER: 60/089600  
 72 PRIOR FILING DATE: 1998-06-17  
 73 PRIOR APPLICATION NUMBER: 60/089654

1 PRIOR FILING DATE: 1998-06-17  
2 PRIOR APPLICATION NUMBER: 60/089801  
3 PRIOR FILING DATE: 1998-06-18  
4 PRIOR APPLICATION NUMBER: 60/089907  
5 PRIOR FILING DATE: 1998-06-18  
6 PRIOR APPLICATION NUMBER: 60/089908  
7 PRIOR FILING DATE: 1998-06-18  
8 PRIOR APPLICATION NUMBER: 60/089947  
9 PRIOR FILING DATE: 1998-06-19  
10 PRIOR APPLICATION NUMBER: 60/089948  
11 PRIOR FILING DATE: 1998-06-19  
12 PRIOR APPLICATION NUMBER: 60/089952  
13 PRIOR FILING DATE: 1998-06-19  
14 PRIOR APPLICATION NUMBER: 60/090246  
15 PRIOR FILING DATE: 1998-06-22  
16 PRIOR APPLICATION NUMBER: 60/090252  
17 PRIOR FILING DATE: 1998-06-22  
18 PRIOR APPLICATION NUMBER: 60/090254  
19 PRIOR FILING DATE: 1998-06-22  
20 PRIOR APPLICATION NUMBER: 60/090449  
21 PRIOR FILING DATE: 1998-06-24  
22 PRIOR APPLICATION NUMBER: 60/090455  
23 PRIOR FILING DATE: 1998-06-24  
24 PRIOR APPLICATION NUMBER: 60/090429  
25 PRIOR FILING DATE: 1998-06-24  
26 PRIOR APPLICATION NUMBER: 60/090441  
27 PRIOR FILING DATE: 1998-06-24  
28 PRIOR APPLICATION NUMBER: 60/090435  
29 PRIOR FILING DATE: 1998-06-24  
30 PRIOR APPLICATION NUMBER: 60/090444  
31 PRIOR FILING DATE: 1998-06-24  
32 PRIOR APPLICATION NUMBER: 60/090445  
33 PRIOR FILING DATE: 1998-06-24  
34 PRIOR APPLICATION NUMBER: 60/090472  
35 PRIOR FILING DATE: 1998-06-24  
36 PRIOR APPLICATION NUMBER: 60/090535  
37 PRIOR FILING DATE: 1998-06-24  
38 PRIOR APPLICATION NUMBER: 60/090540  
39 PRIOR FILING DATE: 1998-06-24  
40 PRIOR APPLICATION NUMBER: 60/090542  
41 PRIOR FILING DATE: 1998-06-24  
42 PRIOR APPLICATION NUMBER: 60/090557  
43 PRIOR FILING DATE: 1998-06-24  
44 PRIOR APPLICATION NUMBER: 60/090676  
45 PRIOR FILING DATE: 1998-06-25  
46 PRIOR APPLICATION NUMBER: 60/090678  
47 PRIOR FILING DATE: 1998-06-25  
48 PRIOR APPLICATION NUMBER: 60/090690  
49 PRIOR FILING DATE: 1998-06-25  
50 PRIOR APPLICATION NUMBER: 60/090694  
51 PRIOR FILING DATE: 1998-06-25  
52 PRIOR APPLICATION NUMBER: 60/090695  
53 PRIOR FILING DATE: 1998-06-25  
54 PRIOR APPLICATION NUMBER: 60/090696  
55 PRIOR FILING DATE: 1998-06-25  
56 PRIOR APPLICATION NUMBER: 60/090862  
57 PRIOR FILING DATE: 1998-06-26  
58 PRIOR APPLICATION NUMBER: 60/090863  
59 PRIOR FILING DATE: 1998-06-26  
60 PRIOR APPLICATION NUMBER: 60/091360  
61 PRIOR FILING DATE: 1998-07-01  
62 PRIOR APPLICATION NUMBER: 60/091478  
63 PRIOR FILING DATE: 1998-07-02  
64 PRIOR APPLICATION NUMBER: 60/091544  
65 PRIOR FILING DATE: 1998-07-01  
66 PRIOR APPLICATION NUMBER: 60/091519  
67 PRIOR FILING DATE: 1998-07-02  
68 PRIOR APPLICATION NUMBER: 60/091626  
69 PRIOR FILING DATE: 1998-07-02  
70 PRIOR APPLICATION NUMBER: 60/091633  
71 PRIOR FILING DATE: 1998-07-02  
72 PRIOR APPLICATION NUMBER: 60/091678  
73 PRIOR FILING DATE: 1998-07-02

1 PRIOR APPLICATION NUMBER: 60/091982  
2 PRIOR FILING DATE: 1998-07-07  
3 PRIOR APPLICATION NUMBER: 60/092182  
4 PRIOR FILING DATE: 1998-07-09  
5 Query Match 63.8%; Score 13.4; DB 9; Length 21;  
6 Best Local Similarity 93.3%; Prod. No. 2.3e+03;  
7 Matches 14; Conservative 0; Mismatches 1; Indels 0; Gaps 0;  
8  
9 QY 2 ACCTAAGGAGAGG 16  
10 III IIIIIIIIIII  
11  
12 Qb 3 ACCTAAGGAGAGG 17  
13  
14  
15  
16  
17  
18  
19  
20  
21  
22  
23  
24  
25  
26  
27  
28  
29  
30  
31  
32  
33  
34  
35  
36  
37  
38  
39  
40  
41  
42  
43  
44  
45  
46  
47  
48  
49  
50  
51  
52  
53  
54  
55  
56  
57  
58  
59  
60  
61  
62  
63  
64  
65  
66  
67  
68  
69  
70  
71  
72  
73  
74  
75  
76  
77  
78  
79  
80  
81  
82  
83  
84  
85  
86  
87  
88  
89  
90  
91  
92  
93  
94  
95  
96  
97  
98  
99  
100  
101  
102  
103  
104  
105  
106  
107  
108  
109  
110  
111  
112  
113  
114  
115  
116  
117  
118  
119  
120  
121  
122  
123  
124  
125  
126  
127  
128  
129  
130  
131  
132  
133  
134  
135  
136  
137  
138  
139  
140  
141  
142  
143  
144  
145  
146  
147  
148  
149  
150  
151  
152  
153  
154  
155  
156  
157  
158  
159  
160  
161  
162  
163  
164  
165  
166  
167  
168  
169  
170  
171  
172  
173  
174  
175  
176  
177  
178  
179  
180  
181  
182  
183  
184  
185  
186  
187  
188  
189  
190  
191  
192  
193  
194  
195  
196  
197  
198  
199  
200  
201  
202  
203  
204  
205  
206  
207  
208  
209  
210  
211  
212  
213  
214  
215  
216  
217  
218  
219  
220  
221  
222  
223  
224  
225  
226  
227  
228  
229  
230  
231  
232  
233  
234  
235  
236  
237  
238  
239  
240  
241  
242  
243  
244  
245  
246  
247  
248  
249  
250  
251  
252  
253  
254  
255  
256  
257  
258  
259  
260  
261  
262  
263  
264  
265  
266  
267  
268  
269  
270  
271  
272  
273  
274  
275  
276  
277  
278  
279  
280  
281  
282  
283  
284  
285  
286  
287  
288  
289  
290  
291  
292  
293  
294  
295  
296  
297  
298  
299  
300  
301  
302  
303  
304  
305  
306  
307  
308  
309  
310  
311  
312  
313  
314  
315  
316  
317  
318  
319  
320  
321  
322  
323  
324  
325  
326  
327  
328  
329  
330  
331  
332  
333  
334  
335  
336  
337  
338  
339  
340  
341  
342  
343  
344  
345  
346  
347  
348  
349  
350  
351  
352  
353  
354  
355  
356  
357  
358  
359  
360  
361  
362  
363  
364  
365  
366  
367  
368  
369  
370  
371  
372  
373  
374  
375  
376  
377  
378  
379  
380  
381  
382  
383  
384  
385  
386  
387  
388  
389  
390  
391  
392  
393  
394  
395  
396  
397  
398  
399  
400  
401  
402  
403  
404  
405  
406  
407  
408  
409  
410  
411  
412  
413  
414  
415  
416  
417  
418  
419  
420  
421  
422  
423  
424  
425  
426  
427  
428  
429  
430  
431  
432  
433  
434  
435  
436  
437  
438  
439  
440  
441  
442  
443  
444  
445  
446  
447  
448  
449  
450  
451  
452  
453  
454  
455  
456  
457  
458  
459  
460  
461  
462  
463  
464  
465  
466  
467  
468  
469  
470  
471  
472  
473  
474  
475  
476  
477  
478  
479  
480  
481  
482  
483  
484  
485  
486  
487  
488  
489  
490  
491  
492  
493  
494  
495  
496  
497  
498  
499  
500  
501  
502  
503  
504  
505  
506  
507  
508  
509  
510  
511  
512  
513  
514  
515  
516  
517  
518  
519  
520  
521  
522  
523  
524  
525  
526  
527  
528  
529  
530  
531  
532  
533  
534  
535  
536  
537  
538  
539  
540  
541  
542  
543  
544  
545  
546  
547  
548  
549  
550  
551  
552  
553  
554  
555  
556  
557  
558  
559  
560  
561  
562  
563  
564  
565  
566  
567  
568  
569  
570  
571  
572  
573  
574  
575  
576  
577  
578  
579  
580  
581  
582  
583  
584  
585  
586  
587  
588  
589  
590  
591  
592  
593  
594  
595  
596  
597  
598  
599  
600  
601  
602  
603  
604  
605  
606  
607  
608  
609  
610  
611  
612  
613  
614  
615  
616  
617  
618  
619  
620  
621  
622  
623  
624  
625  
626  
627  
628  
629  
630  
631  
632  
633  
634  
635  
636  
637  
638  
639  
640  
641  
642  
643  
644  
645  
646  
647  
648  
649  
650  
651  
652  
653  
654  
655  
656  
657  
658  
659  
660  
661  
662  
663  
664  
665  
666  
667  
668  
669  
670  
671  
672  
673  
674  
675  
676  
677  
678  
679  
680  
681  
682  
683  
684  
685  
686  
687  
688  
689  
690  
691  
692  
693  
694  
695  
696  
697  
698  
699  
700  
701  
702  
703  
704  
705  
706  
707  
708  
709  
710  
711  
712  
713  
714  
715  
716  
717  
718  
719  
720  
721  
722  
723  
724  
725  
726  
727  
728  
729  
730  
731  
732  
733  
734  
735  
736  
737  
738  
739  
740  
741  
742  
743  
744  
745  
746  
747  
748  
749  
750  
751  
752  
753  
754  
755  
756  
757  
758  
759  
760  
761  
762  
763  
764  
765  
766  
767  
768  
769  
770  
771  
772  
773  
774  
775  
776  
777  
778  
779  
780  
781  
782  
783  
784  
785  
786  
787  
788  
789  
790  
791  
792  
793  
794  
795  
796  
797  
798  
799  
800  
801  
802  
803  
804  
805  
806  
807  
808  
809  
810  
811  
812  
813  
814  
815  
816  
817  
818  
819  
820  
821  
822  
823  
824  
825  
826  
827  
828  
829  
830  
831  
832  
833  
834  
835  
836  
837  
838  
839  
840  
841  
842  
843  
844  
845  
846  
847  
848  
849  
850  
851  
852  
853  
854  
855  
856  
857  
858  
859  
860  
861  
862  
863  
864  
865  
866  
867  
868  
869  
870  
871  
872  
873  
874  
875  
876  
877  
878  
879  
880  
881  
882  
883  
884  
885  
886  
887  
888  
889  
890  
891  
892  
893  
894  
895  
896  
897  
898  
899  
900  
901  
902  
903  
904  
905  
906  
907  
908  
909  
910  
911  
912  
913  
914  
915  
916  
917  
918  
919  
920  
921  
922  
923  
924  
925  
926  
927  
928  
929  
930  
931  
932  
933  
934  
935  
936  
937  
938  
939  
940  
941  
942  
943  
944  
945  
946  
947  
948  
949  
950  
951  
952  
953  
954  
955  
956  
957  
958  
959  
960  
961  
962  
963  
964  
965  
966  
967  
968  
969  
970  
971  
972  
973  
974  
975  
976  
977  
978  
979  
980  
981  
982  
983  
984  
985  
986  
987  
988  
989  
990  
991  
992  
993  
994  
995  
996  
997  
998  
999  
1000  
1001  
1002  
1003  
1004  
1005  
1006  
1007  
1008  
1009  
1010  
1011  
1012  
1013  
1014  
1015  
1016  
1017  
1018  
1019  
1020  
1021  
1022  
1023  
1024  
1025  
1026  
1027  
1028  
1029  
1030  
1031  
1032  
1033  
1034  
1035  
1036  
1037  
1038  
1039  
1040  
1041  
1042  
1043  
1044  
1045  
1046  
1047  
1048  
1049  
1050  
1051  
1052  
1053  
1054  
1055  
1056  
1057  
1058  
1059  
1060  
1061  
1062  
1063  
1064  
1065  
1066  
1067  
1068  
1069  
1070  
1071  
1072  
1073  
1074  
1075  
1076  
1077  
1078  
1079  
1080  
1081  
1082  
1083  
1084  
1085  
1086  
1087  
1088  
1089  
1090  
1091  
1092  
1093  
1094  
1095  
1096  
1097  
1098  
1099  
1100  
1101  
1102  
1103  
1104  
1105  
1106  
1107  
1108  
1109  
1110  
1111  
1112  
1113  
1114  
1115  
1116  
1117  
1118  
1119  
1120  
1121  
1122  
1123  
1124  
1125  
1126  
1127  
1128  
1129  
1130  
1131  
1132  
1133  
1134  
1135  
1136  
1137  
1138  
1139  
1140  
1141  
1142  
1143  
1144  
1145  
1146  
1147  
1148  
1149  
1150  
1151  
1152  
1153  
1154  
1155  
1156  
1157  
1158  
1159  
1160  
1161  
1162  
1163  
1164  
1165  
1166  
1167  
1168  
1169  
1170  
1171  
1172  
1173  
1174  
1175  
1176  
1177  
1178  
1179  
1180  
1181  
1182  
1183  
1184  
1185  
1186  
1187  
1188  
1189  
1190  
1191  
1192  
1193  
1194  
1195  
1196  
1197  
1198  
1199  
1200  
1201  
1202  
1203  
1204  
1205  
1206  
1207  
1208  
1209  
1210  
1211  
1212  
1213  
1214  
1215  
1216  
1217  
1218  
1219  
1220  
1221  
1222  
1223  
1224  
1225  
1226  
1227  
1228  
1229  
1230  
1231  
1232  
1233  
1234  
1235  
1236  
1237  
1238  
1239  
1240  
1241  
1242  
1243  
1244  
1245  
1246  
1247  
1248  
1249  
1250  
1251  
1252  
1253  
1254  
1255  
1256  
1257  
1258  
1259  
1260  
1261  
1262  
1263  
1264  
1265  
1266  
1267  
1268  
1269  
1270  
1271  
1272  
1273  
1274  
1275  
1276  
1277  
1278  
1279  
1280  
1281  
1282  
1283  
1284  
1285  
1286  
1287  
1288  
1289  
1290  
1291  
1292  
1293  
1294  
1295  
1296  
1297  
1298  
1299  
1300  
1301  
1302  
1303  
1304  
1305  
1306  
1307  
1308  
1309  
1310  
1311  
1312  
1313  
1314  
1315  
1316  
1317  
1318  
1319  
1320  
1321  
1322  
1323  
1324  
1325  
1326  
1327  
1328  
1329  
1330  
1331  
1332  
1333  
1334  
1335  
1336  
1337  
1338  
1339  
1340  
1341  
1342  
1343  
1344  
1345  
1346  
1347  
1348  
1349  
1350  
1351  
1352  
1353  
1354  
1355  
1356  
1357  
1358  
1359  
1360  
1361  
1362  
1363  
1364  
1365  
1366  
1367  
1368  
1369  
1370  
1371  
1372  
1373  
1374  
1375  
1376  
1377  
1378  
1379  
1380  
1381  
1382  
1383  
1384  
1385  
1386  
1387  
1388  
1389  
1390  
1391  
1392  
1393  
1394  
1395  
1396  
1397  
1398  
1399  
1400  
1401  
1402  
1403  
1404  
1405  
1406  
1407  
1408  
1409  
1410  
1411  
1412  
1413  
1414  
1415  
1416  
1417  
1418  
1419  
1420  
1421  
1422  
1423  
1424  
1425  
1426  
1427  
1428  
1429  
1430  
1431  
1432  
1433  
1434  
1435  
1436  
1437  
1438  
1439  
1440  
1441  
1442  
1443  
1444  
1445  
1446  
1447  
1448  
1449  
1450  
1451  
1452  
1453  
1454  
1455  
1456  
1457  
1458  
1459  
1460  
1461  
1462  
1463  
1464  
1465  
1466  
1467  
1468  
1469  
1470  
1471  
1472  
1473  
1474  
1475  
1476  
1477  
1478  
1479  
1480  
1481  
1482  
1483  
1484  
1485  
1486  
1487  
1488  
1489  
1490  
1491  
1492  
1493  
1494  
1495  
1496  
1497  
1498  
1499  
1500  
1501  
1502  
1503  
1504  
1505  
1506  
1507  
1508  
1509  
1510  
1511  
1512  
1513  
1514  
1515  
1516  
1517  
1518  
1519  
1520  
1521  
1522  
1523  
1524  
1525  
1526  
1527  
1528  
1529  
1530  
1531  
1532  
1533  
1534  
1535  
1536  
1537  
1538  
1539  
1540  
1541  
1542  
1543  
1544  
1545  
1546  
1547  
1548  
1549  
1550  
1551  
1552  
1553  
1554  
1555  
1556  
1557  
1558  
1559  
1560  
1561  
1562  
1563  
1564  
1565  
1566  
1567  
1568  
1569  
1570  
1571  
1572  
1573  
1574  
1575  
1576  
1577  
1578  
1579  
1580  
1581  
1582  
1583  
1584  
1585  
1586  
1587  
1588  
1589  
1590  
1591  
1592  
1593  
1594  
1595  
1596  
1597  
1598  
1599  
1600  
1601  
1602  
1603  
1604  
1605  
1606  
1607  
1608  
1609  
1610  
1611  
1612  
1613  
1614  
1615  
1616  
1617  
1618  
1619  
1620  
1621  
1622  
1623  
1624  
1625  
1626  
1627  
1628  
1629  
1630  
1631  
1632  
1633  
1634  
1635  
1636  
1637  
1638  
1639  
1640  
1641  
1642  
1643  
1644  
1645  
1646  
1647  
1648  
1649  
1650  
1651  
1652  
1653  
1654  
1655  
1656  
1657  
1658  
1659  
1660  
1661  
1662  
1663  
1664  
1665  
1666  
1667  
1668  
1669  
1670  
1671  
1672  
1673  
1674  
1675  
1676  
1677  
1678  
1679  
1680  
1681  
1682  
1683  
1684  
1685  
1686  
1687  
1688  
1689  
1690  
1691  
1692  
1693  
1694  
1695  
1696  
1697  
1698  
1699  
1700  
1701  
1702  
1703  
1704  
1705  
1706  
1707  
1708  
1709  
1710  
1711  
1712  
1713  
1714  
1715  
1716  
1717  
1718  
1719  
1720  
1721  
1722  
1723  
1724  
1725  
1726  
1727  
1728  
1729  
1730  
1731  
1732  
1733  
1734  
1735  
1736  
1737  
1738  
1739  
1740  
1741  
1742  
1743  
1744  
1745  
1746  
1747  
1748  
1749  
1750  
1751  
1752  
1753  
1754  
1755  
1756  
1757  
1758  
1759  
1760  
1761  
1762  
1763  
1764  
1765  
1766  
1767  
1768  
1769  
1770  
1771  
1772  
1773  
1774  
1775  
1776  
1777  
1778  
1779  
1780  
1781  
1782  
1783  
1784  
1785  
1786  
1787  
1788  
1789  
1790  
1791  
1792  
1793  
1794  
1795  
1796  
1797  
1798  
1799  
1800  
1801  
1802  
1803  
1804  
1805  
1806  
1807  
1808  
1809  
1810  
1811  
1812  
1813  
1814  
1815  
1816  
1817  
1818  
1819  
1820  
1821  
1822  
1823  
1824  
1825  
1826  
1827  
1828  
1829  
1830  
1831  
1832  
1833  
1834  
1835  
1836  
1837  
1838  
1839  
1840  
1841  
1842  
1843  
1844  
1845  
1846  
1847  
1848  
1849  
1850  
1851  
1852  
1853  
1854  
1855  
1856  
1857  
1858  
1859  
1860  
1861  
1862  
1863  
1864  
1865  
1866  
1867  
1868  
1869  
1870  
1871  
1872  
1873  
1874  
1875  
1876  
1877  
1878  
1879  
1880  
1881  
1882  
1883  
1884  
1885  
1886  
1887  
1888  
1889  
1890  
1891  
1892  
1893  
1894  
1895  
1896  
1897  
1898  
1899  
1900  
1901  
1902  
1903  
1904  
1905  
1906  
1907  
1908  
1909  
1910  
1911  
1912  
1913  
1914  
1915  
1916  
1917  
1918  
1919  
1920  
1921  
1922  
1923  
1924  
1925  
1926  
1927  
1928  
1929  
1930  
1931  
1932  
1933  
1934  
1935  
1936  
1937  
1938  
1939  
1940  
1941  
1942  
1943  
1944  
1945  
1946  
1947

1 PRIOR FILING DATE: 1998-06-02  
2 PRIOR APPLICATION NUMBER: 60/0887827  
3 PRIOR FILING DATE: 1998-06-03  
4 PRIOR APPLICATION NUMBER: 60/088021  
5 PRIOR FILING DATE: 1998-06-04  
6 PRIOR APPLICATION NUMBER: 60/088025  
7 PRIOR FILING DATE: 1998-06-04  
8 PRIOR APPLICATION NUMBER: 60/088026  
9 PRIOR FILING DATE: 1998-06-04  
10 PRIOR APPLICATION NUMBER: 60/088028  
11 PRIOR FILING DATE: 1998-06-04  
12 PRIOR APPLICATION NUMBER: 60/088029  
13 PRIOR FILING DATE: 1998-06-04  
14 PRIOR APPLICATION NUMBER: 60/088040  
15 PRIOR FILING DATE: 1998-06-04  
16 PRIOR APPLICATION NUMBER: 60/088043  
17 PRIOR FILING DATE: 1998-06-04  
18 PRIOR APPLICATION NUMBER: 60/088426  
19 PRIOR FILING DATE: 1998-06-04  
20 PRIOR APPLICATION NUMBER: 60/088167  
21 PRIOR FILING DATE: 1998-06-05  
22 PRIOR APPLICATION NUMBER: 60/088202  
23 PRIOR FILING DATE: 1998-06-05  
24 PRIOR APPLICATION NUMBER: 60/088212  
25 PRIOR FILING DATE: 1998-06-05  
26 PRIOR APPLICATION NUMBER: 60/088217  
27 PRIOR FILING DATE: 1998-06-05  
28 PRIOR APPLICATION NUMBER: 60/088555  
29 PRIOR FILING DATE: 1998-06-09  
30 PRIOR APPLICATION NUMBER: 60/088734  
31 PRIOR FILING DATE: 1998-06-10  
32 PRIOR APPLICATION NUMBER: 60/088748  
33 PRIOR FILING DATE: 1998-06-10  
34 PRIOR APPLICATION NUMBER: 60/088742  
35 PRIOR FILING DATE: 1998-06-10  
36 PRIOR APPLICATION NUMBER: 60/088810  
37 PRIOR FILING DATE: 1998-06-10  
38 PRIOR APPLICATION NUMBER: 60/088824  
39 PRIOR FILING DATE: 1998-06-10  
40 PRIOR APPLICATION NUMBER: 60/088826  
41 PRIOR FILING DATE: 1998-06-10  
42 PRIOR APPLICATION NUMBER: 60/088848  
43 PRIOR FILING DATE: 1998-06-11  
44 PRIOR APPLICATION NUMBER: 60/088861  
45 PRIOR FILING DATE: 1998-06-11  
46 PRIOR APPLICATION NUMBER: 60/088876  
47 PRIOR FILING DATE: 1998-06-11  
48 PRIOR APPLICATION NUMBER: 60/089105  
49 PRIOR FILING DATE: 1998-06-12  
50 PRIOR APPLICATION NUMBER: 60/089440  
51 PRIOR FILING DATE: 1998-06-16  
52 PRIOR APPLICATION NUMBER: 60/089512  
53 PRIOR FILING DATE: 1998-06-16  
54 PRIOR APPLICATION NUMBER: 60/089514  
55 PRIOR FILING DATE: 1998-06-16  
56 PRIOR APPLICATION NUMBER: 60/089542  
57 PRIOR FILING DATE: 1998-06-17  
58 PRIOR APPLICATION NUMBER: 60/089548  
59 PRIOR FILING DATE: 1998-06-17  
60 PRIOR APPLICATION NUMBER: 60/089598  
61 PRIOR FILING DATE: 1998-06-17  
62 PRIOR APPLICATION NUMBER: 60/089599  
63 PRIOR FILING DATE: 1998-06-17  
64 PRIOR APPLICATION NUMBER: 60/089600  
65 PRIOR FILING DATE: 1998-06-17  
66 PRIOR APPLICATION NUMBER: 60/089654  
67 PRIOR FILING DATE: 1998-06-17  
68 PRIOR APPLICATION NUMBER: 60/089801  
69 PRIOR FILING DATE: 1998-06-18  
70 PRIOR APPLICATION NUMBER: 60/089907  
71 PRIOR FILING DATE: 1998-06-18  
72 PRIOR APPLICATION NUMBER: 60/089908  
73 PRIOR FILING DATE: 1998-06-18  
74 PRIOR APPLICATION NUMBER: 60/089947  
75 PRIOR FILING DATE: 1998-06-19  
76 PRIOR APPLICATION NUMBER: 60/089948  
77 PRIOR FILING DATE: 1998-06-19  
78 PRIOR APPLICATION NUMBER: 60/089952  
79 PRIOR FILING DATE: 1998-06-19  
80 PRIOR APPLICATION NUMBER: 60/090246  
81 PRIOR FILING DATE: 1998-06-22  
82 PRIOR APPLICATION NUMBER: 60/090252  
83 PRIOR FILING DATE: 1998-06-22  
84 PRIOR APPLICATION NUMBER: 60/090254  
85 PRIOR FILING DATE: 1998-06-22  
86 PRIOR APPLICATION NUMBER: 60/090449  
87 PRIOR FILING DATE: 1998-06-24  
88 PRIOR APPLICATION NUMBER: 60/090455  
89 PRIOR FILING DATE: 1998-06-24  
90 PRIOR APPLICATION NUMBER: 60/090444  
91 PRIOR FILING DATE: 1998-06-24  
92 PRIOR APPLICATION NUMBER: 60/090445  
93 PRIOR FILING DATE: 1998-06-24  
94 PRIOR APPLICATION NUMBER: 60/090472  
95 PRIOR FILING DATE: 1998-06-24  
96 PRIOR APPLICATION NUMBER: 60/090455  
97 PRIOR FILING DATE: 1998-06-24  
98 PRIOR APPLICATION NUMBER: 60/090540  
99 PRIOR FILING DATE: 1998-06-24  
100 PRIOR APPLICATION NUMBER: 60/090542  
101 PRIOR FILING DATE: 1998-06-24  
102 PRIOR APPLICATION NUMBER: 60/090557  
103 PRIOR FILING DATE: 1998-06-24  
104 PRIOR APPLICATION NUMBER: 60/090676  
105 PRIOR FILING DATE: 1998-06-25  
106 PRIOR APPLICATION NUMBER: 60/090678  
107 PRIOR FILING DATE: 1998-06-25  
108 PRIOR APPLICATION NUMBER: 60/090650  
109 PRIOR FILING DATE: 1998-06-25  
110 PRIOR APPLICATION NUMBER: 60/090694  
111 PRIOR FILING DATE: 1998-06-25  
112 PRIOR APPLICATION NUMBER: 60/090695  
113 PRIOR FILING DATE: 1998-06-25  
114 PRIOR APPLICATION NUMBER: 60/090696  
115 PRIOR FILING DATE: 1998-06-25  
116 PRIOR APPLICATION NUMBER: 60/090862  
117 PRIOR FILING DATE: 1998-06-26  
118 PRIOR APPLICATION NUMBER: 60/090863  
119 PRIOR FILING DATE: 1998-06-26  
120 PRIOR APPLICATION NUMBER: 60/091460  
121 PRIOR FILING DATE: 1998-07-01  
122 PRIOR APPLICATION NUMBER: 60/091478  
123 PRIOR FILING DATE: 1998-07-02  
124 PRIOR APPLICATION NUMBER: 60/091544  
125 PRIOR FILING DATE: 1998-07-01  
126 PRIOR APPLICATION NUMBER: 60/091519  
127 PRIOR FILING DATE: 1998-07-02  
128 PRIOR APPLICATION NUMBER: 60/091626  
129 PRIOR FILING DATE: 1998-07-02  
130 PRIOR APPLICATION NUMBER: 60/091634  
131 PRIOR FILING DATE: 1998-07-02  
132 PRIOR APPLICATION NUMBER: 60/091978  
133 PRIOR FILING DATE: 1998-07-07  
134 PRIOR APPLICATION NUMBER: 60/091982  
135 PRIOR FILING DATE: 1998-07-07  
136 PRIOR APPLICATION NUMBER: 60/092182  
137 PRIOR FILING DATE: 1998-07-09





1 PRIOR FILING DATE: 1998-06-22  
 2 PRIOR APPLICATION NUMBER: 60/090252  
 3 PRIOR FILING DATE: 1998-06-22  
 4 PRIOR APPLICATION NUMBER: 60/090254  
 5 PRIOR FILING DATE: 1998-06-22  
 6 PRIOR APPLICATION NUMBER: 60/090449  
 7 PRIOR FILING DATE: 1998-06-23  
 8 PRIOR APPLICATION NUMBER: 60/090455  
 9 PRIOR FILING DATE: 1998-06-23  
 10 PRIOR APPLICATION NUMBER: 60/090429  
 11 PRIOR FILING DATE: 1998-06-24  
 12 PRIOR APPLICATION NUMBER: 60/090441  
 13 PRIOR FILING DATE: 1998-06-24  
 14 PRIOR APPLICATION NUMBER: 60/090445  
 15 PRIOR FILING DATE: 1998-06-24  
 16 PRIOR APPLICATION NUMBER: 60/090444  
 17 PRIOR FILING DATE: 1998-06-24  
 18 PRIOR APPLICATION NUMBER: 60/090445  
 19 PRIOR FILING DATE: 1998-06-24  
 20 PRIOR APPLICATION NUMBER: 60/090472  
 21 PRIOR FILING DATE: 1998-06-24  
 22 PRIOR APPLICATION NUMBER: 60/090545  
 23 PRIOR FILING DATE: 1998-06-24  
 24 PRIOR APPLICATION NUMBER: 60/090540  
 25 PRIOR FILING DATE: 1998-06-24  
 26 PRIOR APPLICATION NUMBER: 60/090542  
 27 PRIOR FILING DATE: 1998-06-24  
 28 PRIOR APPLICATION NUMBER: 60/090557  
 29 PRIOR FILING DATE: 1998-06-24  
 30 PRIOR APPLICATION NUMBER: 60/090676  
 31 PRIOR FILING DATE: 1998-06-25  
 32 PRIOR APPLICATION NUMBER: 60/090678  
 33 PRIOR FILING DATE: 1998-06-25  
 34 PRIOR APPLICATION NUMBER: 60/090690  
 35 PRIOR FILING DATE: 1998-06-25  
 36 PRIOR APPLICATION NUMBER: 60/090694  
 37 PRIOR FILING DATE: 1998-06-25  
 38 PRIOR APPLICATION NUMBER: 60/090695  
 39 PRIOR FILING DATE: 1998-06-25  
 40 PRIOR APPLICATION NUMBER: 60/090696  
 41 PRIOR FILING DATE: 1998-06-25  
 42 PRIOR APPLICATION NUMBER: 60/090862  
 43 PRIOR FILING DATE: 1998-06-26  
 44 PRIOR APPLICATION NUMBER: 60/090863  
 45 PRIOR FILING DATE: 1998-06-26  
 46 PRIOR APPLICATION NUMBER: 60/091360  
 47 PRIOR FILING DATE: 1998-07-01  
 48 PRIOR APPLICATION NUMBER: 60/091478  
 49 PRIOR FILING DATE: 1998-07-02  
 50 PRIOR APPLICATION NUMBER: 60/091544  
 51 PRIOR FILING DATE: 1998-07-01  
 52 PRIOR APPLICATION NUMBER: 60/091519  
 53 PRIOR FILING DATE: 1998-07-02  
 54 PRIOR APPLICATION NUMBER: 60/091626  
 55 PRIOR FILING DATE: 1998-07-02  
 56 PRIOR APPLICATION NUMBER: 60/091633  
 57 PRIOR FILING DATE: 1998-07-02  
 58 PRIOR APPLICATION NUMBER: 60/091978  
 59 PRIOR FILING DATE: 1998-07-07  
 60 PRIOR APPLICATION NUMBER: 60/091982  
 61 PRIOR FILING DATE: 1998-07-07  
 62 PRIOR APPLICATION NUMBER: 60/092182  
 63 PRIOR FILING DATE: 1998-07-09

Query Match 63.88% Score 13.47 DB 9; Length 21;

Best local Similarity 93.48; Prod. No. 2.4e+04;

Matches 14; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 2 ACCAATGGAGCCG 16

111 1111111111

10 3 ACCAATGGAGCCG 17

1 RESULT 7  
 2 US-09-989-740-428  
 3 Sequence 428, Application US/09989740  
 4 Publication No. US20020197674A1  
 5 GENERAL INFORMATION:  
 6 APPLICANT: Ashkenazi, Avi J.  
 7 APPLICANT: Baker, Kevin P.  
 8 APPLICANT: Bolstein, David  
 9 APPLICANT: Chesnoyets, Ilan  
 10 APPLICANT: Eaton, Dan L.  
 11 APPLICANT: Ferrara, Napoleone  
 12 APPLICANT: Ford, Sherman  
 13 APPLICANT: Gettel, Hanspeter  
 14 APPLICANT: Gottlieb, Mary E.  
 15 APPLICANT: Goddard, Audrey  
 16 APPLICANT: Godowski, Paul J.  
 17 APPLICANT: Gutney, Austin L.  
 18 APPLICANT: Kladavin, Yair J.  
 19 APPLICANT: Napier, Mary A.  
 20 APPLICANT: Pan, James  
 21 APPLICANT: Paoni, Nicholas F.  
 22 APPLICANT: Ray, Margaret Ann  
 23 APPLICANT: Stewart, Timothy A.  
 24 APPLICANT: Thomas, Daniel  
 25 APPLICANT: Watanabe, Colin K.  
 26 APPLICANT: Williams, P. Mickey  
 27 APPLICANT: Wood, William L.  
 28 APPLICANT: Zhanot, Zevulun  
 29 TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic  
 30 TITLE OF INVENTION: Acids Encoding the Same  
 31 FILE REFERENCE: P27-601099  
 32 CURRENT APPLICATION NUMBER: US/09989740  
 33 CURRENT FILING DATE: 2001-11-20  
 34 PRIOR APPLICATION NUMBER: 60/049787  
 35 PRIOR FILING DATE: 1997-06-16  
 36 PRIOR APPLICATION NUMBER: 60/062250  
 37 PRIOR FILING DATE: 1997-10-17  
 38 PRIOR APPLICATION NUMBER: 60/065186  
 39 PRIOR FILING DATE: 1997-11-12  
 40 PRIOR APPLICATION NUMBER: 60/065411  
 41 PRIOR FILING DATE: 1997-11-13  
 42 PRIOR APPLICATION NUMBER: 60/066770  
 43 PRIOR FILING DATE: 1997-11-24  
 44 PRIOR APPLICATION NUMBER: 60/075945  
 45 PRIOR FILING DATE: 1998-02-25  
 46 PRIOR APPLICATION NUMBER: 60/078910  
 47 PRIOR FILING DATE: 1998-04-20  
 48 PRIOR APPLICATION NUMBER: 60/083322  
 49 PRIOR FILING DATE: 1998-08-28  
 50 PRIOR APPLICATION NUMBER: 60/084600  
 51 PRIOR FILING DATE: 1998-09-07  
 52 PRIOR APPLICATION NUMBER: 60/087106  
 53 PRIOR FILING DATE: 1998-05-28  
 54 PRIOR APPLICATION NUMBER: 60/087607  
 55 PRIOR FILING DATE: 1998-06-02  
 56 PRIOR APPLICATION NUMBER: 60/087609  
 57 PRIOR FILING DATE: 1998-06-02  
 58 PRIOR APPLICATION NUMBER: 60/087759  
 59 PRIOR FILING DATE: 1998-06-02  
 60 PRIOR APPLICATION NUMBER: 60/087827  
 61 PRIOR FILING DATE: 1998-06-04  
 62 PRIOR APPLICATION NUMBER: 60/088021  
 63 PRIOR FILING DATE: 1998-06-04  
 64 PRIOR APPLICATION NUMBER: 60/088025  
 65 PRIOR FILING DATE: 1998-06-04  
 66 PRIOR APPLICATION NUMBER: 60/088026  
 67 PRIOR FILING DATE: 1998-06-04  
 68 PRIOR APPLICATION NUMBER: 60/088028  
 69 PRIOR FILING DATE: 1998-06-04  
 70 PRIOR APPLICATION NUMBER: 60/088029  
 71 PRIOR FILING DATE: 1998-06-04  
 72 PRIOR APPLICATION NUMBER: 60/088030

1 PRIOR FILING DATE: 1998-06-04  
2 PRIOR APPLICATION NUMBER: 60/088034  
3 PRIOR FILING DATE: 1998-06-04  
4 PRIOR APPLICATION NUMBER: 60/088326  
5 PRIOR FILING DATE: 1998-06-04  
6 PRIOR APPLICATION NUMBER: 60/088167  
7 PRIOR FILING DATE: 1998-06-05  
8 PRIOR APPLICATION NUMBER: 60/088202  
9 PRIOR FILING DATE: 1998-06-05  
10 PRIOR APPLICATION NUMBER: 60/088212  
11 PRIOR FILING DATE: 1998-06-05  
12 PRIOR APPLICATION NUMBER: 60/088217  
13 PRIOR FILING DATE: 1998-06-05  
14 PRIOR APPLICATION NUMBER: 60/088555  
15 PRIOR FILING DATE: 1998-06-09  
16 PRIOR APPLICATION NUMBER: 60/088744  
17 PRIOR FILING DATE: 1998-06-10  
18 PRIOR APPLICATION NUMBER: 60/088748  
19 PRIOR FILING DATE: 1998-06-10  
20 PRIOR APPLICATION NUMBER: 60/088742  
21 PRIOR FILING DATE: 1998-06-10  
22 PRIOR APPLICATION NUMBER: 60/088810  
23 PRIOR FILING DATE: 1998-06-10  
24 PRIOR APPLICATION NUMBER: 60/088824  
25 PRIOR FILING DATE: 1998-06-10  
26 PRIOR APPLICATION NUMBER: 60/088826  
27 PRIOR FILING DATE: 1998-06-10  
28 PRIOR APPLICATION NUMBER: 60/088858  
29 PRIOR FILING DATE: 1998-06-11  
30 PRIOR APPLICATION NUMBER: 60/088861  
31 PRIOR FILING DATE: 1998-06-11  
32 PRIOR APPLICATION NUMBER: 60/088876  
33 PRIOR FILING DATE: 1998-06-11  
34 PRIOR APPLICATION NUMBER: 60/089105  
35 PRIOR FILING DATE: 1998-06-12  
36 PRIOR APPLICATION NUMBER: 60/089440  
37 PRIOR FILING DATE: 1998-06-16  
38 PRIOR APPLICATION NUMBER: 60/089512  
39 PRIOR FILING DATE: 1998-06-16  
40 PRIOR APPLICATION NUMBER: 60/089514  
41 PRIOR FILING DATE: 1998-06-16  
42 PRIOR APPLICATION NUMBER: 60/089532  
43 PRIOR FILING DATE: 1998-06-17  
44 PRIOR APPLICATION NUMBER: 60/089538  
45 PRIOR FILING DATE: 1998-06-17  
46 PRIOR APPLICATION NUMBER: 60/089598  
47 PRIOR FILING DATE: 1998-06-17  
48 PRIOR APPLICATION NUMBER: 60/089599  
49 PRIOR FILING DATE: 1998-06-17  
50 PRIOR APPLICATION NUMBER: 60/089600  
51 PRIOR FILING DATE: 1998-06-17  
52 PRIOR APPLICATION NUMBER: 60/089653  
53 PRIOR FILING DATE: 1998-06-17  
54 PRIOR APPLICATION NUMBER: 60/089801  
55 PRIOR FILING DATE: 1998-06-18  
56 PRIOR APPLICATION NUMBER: 60/089907  
57 PRIOR FILING DATE: 1998-06-18  
58 PRIOR APPLICATION NUMBER: 60/089908  
59 PRIOR FILING DATE: 1998-06-18  
60 PRIOR APPLICATION NUMBER: 60/089947  
61 PRIOR FILING DATE: 1998-06-19  
62 PRIOR APPLICATION NUMBER: 60/089948  
63 PRIOR FILING DATE: 1998-06-19  
64 PRIOR APPLICATION NUMBER: 60/089952  
65 PRIOR FILING DATE: 1998-06-19  
66 PRIOR APPLICATION NUMBER: 60/090246  
67 PRIOR FILING DATE: 1998-06-22  
68 PRIOR APPLICATION NUMBER: 60/090252  
69 PRIOR FILING DATE: 1998-06-22  
70 PRIOR APPLICATION NUMBER: 60/090254  
71 PRIOR FILING DATE: 1998-06-22  
72 PRIOR APPLICATION NUMBER: 60/090349  
73 PRIOR FILING DATE: 1998-06-24

1 PRIOR APPLICATION NUMBER: 60/090355  
2 PRIOR FILING DATE: 1998-06-24  
3 PRIOR APPLICATION NUMBER: 60/090429  
4 PRIOR FILING DATE: 1998-06-24  
5 PRIOR APPLICATION NUMBER: 60/090431  
6 PRIOR FILING DATE: 1998-06-24  
7 PRIOR APPLICATION NUMBER: 60/090435  
8 PRIOR FILING DATE: 1998-06-24  
9 PRIOR APPLICATION NUMBER: 60/090444  
10 PRIOR FILING DATE: 1998-06-24  
11 PRIOR APPLICATION NUMBER: 60/090445  
12 PRIOR FILING DATE: 1998-06-24  
13 PRIOR APPLICATION NUMBER: 60/090472  
14 PRIOR FILING DATE: 1998-06-24  
15 PRIOR APPLICATION NUMBER: 60/090535  
16 PRIOR FILING DATE: 1998-06-24  
17 PRIOR APPLICATION NUMBER: 60/090540  
18 PRIOR FILING DATE: 1998-06-24  
19 PRIOR APPLICATION NUMBER: 60/090542  
20 PRIOR FILING DATE: 1998-06-24  
21 PRIOR APPLICATION NUMBER: 60/090557  
22 PRIOR FILING DATE: 1998-06-24  
23 PRIOR APPLICATION NUMBER: 60/090676  
24 PRIOR FILING DATE: 1998-06-25  
25 PRIOR APPLICATION NUMBER: 60/090678  
26 PRIOR FILING DATE: 1998-06-25  
27 PRIOR APPLICATION NUMBER: 60/090690  
28 PRIOR FILING DATE: 1998-06-25  
29 PRIOR APPLICATION NUMBER: 60/090694  
30 PRIOR FILING DATE: 1998-06-25  
31 PRIOR APPLICATION NUMBER: 60/090695  
32 PRIOR FILING DATE: 1998-06-25  
33 PRIOR APPLICATION NUMBER: 60/090696  
34 PRIOR FILING DATE: 1998-06-25  
35 PRIOR APPLICATION NUMBER: 60/090862  
36 PRIOR FILING DATE: 1998-06-26  
37 PRIOR APPLICATION NUMBER: 60/090863  
38 PRIOR FILING DATE: 1998-06-26  
39 PRIOR APPLICATION NUMBER: 60/091460  
40 PRIOR FILING DATE: 1998-07-01  
41 PRIOR APPLICATION NUMBER: 60/091478  
42 PRIOR FILING DATE: 1998-07-02  
43 PRIOR APPLICATION NUMBER: 60/091544  
44 PRIOR FILING DATE: 1998-07-01  
45 PRIOR APPLICATION NUMBER: 60/091519  
46 PRIOR FILING DATE: 1998-07-02  
47 PRIOR APPLICATION NUMBER: 60/091626  
48 PRIOR FILING DATE: 1998-07-02  
49 PRIOR APPLICATION NUMBER: 60/091633  
50 PRIOR FILING DATE: 1998-07-02  
51 PRIOR APPLICATION NUMBER: 60/091978  
52 PRIOR FILING DATE: 1998-07-07  
53 PRIOR APPLICATION NUMBER: 60/091982  
54 PRIOR FILING DATE: 1998-07-07  
55 PRIOR APPLICATION NUMBER: 60/092182  
56 PRIOR FILING DATE: 1998-07-09

Query Match 63.88; Score 13.4; Pos 9; Length 21;

Best Local Similarity 93.48; Prod. No. 2, 3e-03;

Matches 14; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 2 ACCAAGGAGAGAGAG 16

UU UUUUUUUUUUUU

DB 3 ACCAAGGAGAGAGAG 17

RESULT 8

US 09-900-436-428

Sequence 428; Application US/0990436

Publication No. US20020198148A1

GENERAL INFORMATION:

APPLICANT: Ashford, Avi J.

APPLICANT: Ashford, Kevin P.

1 APPLICANT: Bolstein, David  
2 APPLICANT: Besenrogers, Joe  
3 APPLICANT: Eaton, Ian L.  
4 APPLICANT: Ferrara, Napoleone  
5 APPLICANT: Ford, Sherman  
6 APPLICANT: Gerber, Hanspeter  
7 APPLICANT: Gertsen, Mary E.  
8 APPLICANT: Goddard, Audrey  
9 APPLICANT: Godowski, Paul J.  
10 APPLICANT: Grimaldi, J. Christopher  
11 APPLICANT: Gurney, Austin L.  
12 APPLICANT: Kijavins, Ivar J.  
13 APPLICANT: Napier, Mary A.  
14 APPLICANT: Pan, James  
15 APPLICANT: Paoni, Nicholas F.  
16 APPLICANT: Roy, Margaret Ann  
17 APPLICANT: Stewart, Timothy A.  
18 APPLICANT: Tumas, Daniel  
19 APPLICANT: Watanabe, Colin K.  
20 APPLICANT: Williams, P. Mickey  
21 APPLICANT: Wood, William L.  
22 APPLICANT: Zhang, Zemin  
23  
24 TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic  
25  
26 FILE REFERENCE: P270P1C14  
27  
28 CURRENT APPLICATION NUMBER: US/09/990,436  
29  
30 CURRENT FILING DATE: 2001-11-14  
31  
32 PRIOR APPLICATION NUMBER: 60/049787  
33  
34 PRIOR FILING DATE: 1997-06-16  
35  
36 PRIOR APPLICATION NUMBER: 60/06250  
37  
38 PRIOR FILING DATE: 1997-10-17  
39  
40 PRIOR APPLICATION NUMBER: 60/065186  
41  
42 PRIOR FILING DATE: 1997-11-12  
43  
44 PRIOR APPLICATION NUMBER: 60/065411  
45  
46 PRIOR FILING DATE: 1997-11-14  
47  
48 PRIOR APPLICATION NUMBER: 60/066770  
49  
50 PRIOR FILING DATE: 1997-11-24  
51  
52 PRIOR APPLICATION NUMBER: 60/075945  
53  
54 PRIOR FILING DATE: 1998-02-25  
55  
56 PRIOR APPLICATION NUMBER: 60/078910  
57  
58 PRIOR FILING DATE: 1998-03-20  
59  
60 PRIOR APPLICATION NUMBER: 60/084422  
61  
62 PRIOR FILING DATE: 1998-04-28  
63  
64 PRIOR APPLICATION NUMBER: 60/084600  
65  
66 PRIOR FILING DATE: 1998-05-07  
67  
68 PRIOR APPLICATION NUMBER: 60/087106  
69  
70 PRIOR FILING DATE: 1998-05-28  
71  
72 PRIOR APPLICATION NUMBER: 60/087607  
73  
74 PRIOR FILING DATE: 1998-06-02  
75  
76 PRIOR APPLICATION NUMBER: 60/087609  
77  
78 PRIOR FILING DATE: 1998-06-02  
79  
80 PRIOR APPLICATION NUMBER: 60/087759  
81  
82 PRIOR FILING DATE: 1998-06-02  
83  
84 PRIOR APPLICATION NUMBER: 60/087827  
85  
86 PRIOR FILING DATE: 1998-06-03  
87  
88 PRIOR APPLICATION NUMBER: 60/088021  
89  
90 PRIOR FILING DATE: 1998-06-04  
91  
92 PRIOR APPLICATION NUMBER: 60/088025  
93  
94 PRIOR FILING DATE: 1998-06-04  
95  
96 PRIOR APPLICATION NUMBER: 60/088026  
97  
98 PRIOR FILING DATE: 1998-06-04  
99  
100 PRIOR APPLICATION NUMBER: 60/088028  
101  
102 PRIOR FILING DATE: 1998-06-04  
103  
104 PRIOR APPLICATION NUMBER: 60/088029  
105  
106 PRIOR FILING DATE: 1998-06-04  
107  
108 PRIOR APPLICATION NUMBER: 60/088040  
109  
110 PRIOR FILING DATE: 1998-06-04  
111  
112 PRIOR APPLICATION NUMBER: 60/088044  
113  
114 PRIOR FILING DATE: 1998-06-04  
115  
116 PRIOR APPLICATION NUMBER: 60/088426  
117  
118 PRIOR FILING DATE: 1998-06-04  
119  
120 PRIOR APPLICATION NUMBER: 60/088167  
121  
122 PRIOR FILING DATE: 1998-06-05  
123  
124  
125  
126  
127  
128  
129  
130  
131  
132  
133  
134  
135  
136  
137  
138  
139  
140  
141  
142  
143  
144  
145  
146  
147  
148  
149  
150  
151  
152  
153  
154  
155  
156  
157  
158  
159  
160  
161  
162  
163  
164  
165  
166  
167  
168  
169  
170  
171  
172  
173  
174  
175  
176  
177  
178  
179  
180  
181  
182  
183  
184  
185  
186  
187  
188  
189  
190  
191  
192  
193  
194  
195  
196  
197  
198  
199  
200  
201  
202  
203  
204  
205  
206  
207  
208  
209  
210  
211  
212  
213  
214  
215  
216  
217  
218  
219  
220  
221  
222  
223  
224  
225  
226  
227  
228  
229  
230  
231  
232  
233  
234  
235  
236  
237  
238  
239  
240  
241  
242  
243  
244  
245  
246  
247  
248  
249  
250  
251  
252  
253  
254  
255  
256  
257  
258  
259  
260  
261  
262  
263  
264  
265  
266  
267  
268  
269  
270  
271  
272  
273  
274  
275  
276  
277  
278  
279  
280  
281  
282  
283  
284  
285  
286  
287  
288  
289  
290  
291  
292  
293  
294  
295  
296  
297  
298  
299  
300  
301  
302  
303  
304  
305  
306  
307  
308  
309  
310  
311  
312  
313  
314  
315  
316  
317  
318  
319  
320  
321  
322  
323  
324  
325  
326  
327  
328  
329  
330  
331  
332  
333  
334  
335  
336  
337  
338  
339  
340  
341  
342  
343  
344  
345  
346  
347  
348  
349  
350  
351  
352  
353  
354  
355  
356  
357  
358  
359  
360  
361  
362  
363  
364  
365  
366  
367  
368  
369  
370  
371  
372  
373  
374  
375  
376  
377  
378  
379  
380  
381  
382  
383  
384  
385  
386  
387  
388  
389  
390  
391  
392  
393  
394  
395  
396  
397  
398  
399  
400  
401  
402  
403  
404  
405  
406  
407  
408  
409  
410  
411  
412  
413  
414  
415  
416  
417  
418  
419  
420  
421  
422  
423  
424  
425  
426  
427  
428  
429  
430  
431  
432  
433  
434  
435  
436  
437  
438  
439  
440  
441  
442  
443  
444  
445  
446  
447  
448  
449  
450  
451  
452  
453  
454  
455  
456  
457  
458  
459  
460  
461  
462  
463  
464  
465  
466  
467  
468  
469  
470  
471  
472  
473  
474  
475  
476  
477  
478  
479  
480  
481  
482  
483  
484  
485  
486  
487  
488  
489  
490  
491  
492  
493  
494  
495  
496  
497  
498  
499  
500  
501  
502  
503  
504  
505  
506  
507  
508  
509  
510  
511  
512  
513  
514  
515  
516  
517  
518  
519  
520  
521  
522  
523  
524  
525  
526  
527  
528  
529  
530  
531  
532  
533  
534  
535  
536  
537  
538  
539  
540  
541  
542  
543  
544  
545  
546  
547  
548  
549  
550  
551  
552  
553  
554  
555  
556  
557  
558  
559  
560  
561  
562  
563  
564  
565  
566  
567  
568  
569  
570  
571  
572  
573  
574  
575  
576  
577  
578  
579  
580  
581  
582  
583  
584  
585  
586  
587  
588  
589  
590  
591  
592  
593  
594  
595  
596  
597  
598  
599  
600  
601  
602  
603  
604  
605  
606  
607  
608  
609  
610  
611  
612  
613  
614  
615  
616  
617  
618  
619  
620  
621  
622  
623  
624  
625  
626  
627  
628  
629  
630  
631  
632  
633  
634  
635  
636  
637  
638  
639  
640  
641  
642  
643  
644  
645  
646  
647  
648  
649  
650  
651  
652  
653  
654  
655  
656  
657  
658  
659  
660  
661  
662  
663  
664  
665  
666  
667  
668  
669  
670  
671  
672  
673  
674  
675  
676  
677  
678  
679  
680  
681  
682  
683  
684  
685  
686  
687  
688  
689  
690  
691  
692  
693  
694  
695  
696  
697  
698  
699  
700  
701  
702  
703  
704  
705  
706  
707  
708  
709  
710  
711  
712  
713  
714  
715  
716  
717  
718  
719  
720  
721  
722  
723  
724  
725  
726  
727  
728  
729  
730  
731  
732  
733  
734  
735  
736  
737  
738  
739  
740  
741  
742  
743  
744  
745  
746  
747  
748  
749  
750  
751  
752  
753  
754  
755  
756  
757  
758  
759  
760  
761  
762  
763  
764  
765  
766  
767  
768  
769  
770  
771  
772  
773  
774  
775  
776  
777  
778  
779  
780  
781  
782  
783  
784  
785  
786  
787  
788  
789  
790  
791  
792  
793  
794  
795  
796  
797  
798  
799  
800  
801  
802  
803  
804  
805  
806  
807  
808  
809  
810  
811  
812  
813  
814  
815  
816  
817  
818  
819  
820  
821  
822  
823  
824  
825  
826  
827  
828  
829  
830  
831  
832  
833  
834  
835  
836  
837  
838  
839  
840  
841  
842  
843  
844  
845  
846  
847  
848  
849  
850  
851  
852  
853  
854  
855  
856  
857  
858  
859  
860  
861  
862  
863  
864  
865  
866  
867  
868  
869  
870  
871  
872  
873  
874  
875  
876  
877  
878  
879  
880  
881  
882  
883  
884  
885  
886  
887  
888  
889  
890  
891  
892  
893  
894  
895  
896  
897  
898  
899  
900  
901  
902  
903  
904  
905  
906  
907  
908  
909  
910  
911  
912  
913  
914  
915  
916  
917  
918  
919  
920  
921  
922  
923  
924  
925  
926  
927  
928  
929  
930  
931  
932  
933  
934  
935  
936  
937  
938  
939  
940  
941  
942  
943  
944  
945  
946  
947  
948  
949  
950  
951  
952  
953  
954  
955  
956  
957  
958  
959  
960  
961  
962  
963  
964  
965  
966  
967  
968  
969  
970  
971  
972  
973  
974  
975  
976  
977  
978  
979  
980  
981  
982  
983  
984  
985  
986  
987  
988  
989  
990  
991  
992  
993  
994  
995  
996  
997  
998  
999  
1000

? PRIOR FILING DATE: 1998-06-24  
? PRIOR APPLICATION NUMBER: 60/090444  
? PRIOR FILING DATE: 1998-06-24  
? PRIOR APPLICATION NUMBER: 60/090445  
? PRIOR FILING DATE: 1998-06-24  
? PRIOR APPLICATION NUMBER: 60/090472  
? PRIOR FILING DATE: 1998-06-24  
? PRIOR APPLICATION NUMBER: 60/090535  
? PRIOR FILING DATE: 1998-06-24  
? PRIOR APPLICATION NUMBER: 60/090540  
? PRIOR FILING DATE: 1998-06-24  
? PRIOR APPLICATION NUMBER: 60/090542  
? PRIOR FILING DATE: 1998-06-24  
? PRIOR APPLICATION NUMBER: 60/090557  
? PRIOR FILING DATE: 1998-06-24  
? PRIOR APPLICATION NUMBER: 60/090676  
? PRIOR FILING DATE: 1998-06-25  
? PRIOR APPLICATION NUMBER: 60/090678  
? PRIOR FILING DATE: 1998-06-25  
? PRIOR APPLICATION NUMBER: 60/090690  
? PRIOR FILING DATE: 1998-06-25  
? PRIOR APPLICATION NUMBER: 60/090694  
? PRIOR FILING DATE: 1998-06-25  
? PRIOR APPLICATION NUMBER: 60/090695  
? PRIOR FILING DATE: 1998-06-25  
? PRIOR APPLICATION NUMBER: 60/090696  
? PRIOR FILING DATE: 1998-06-25  
? PRIOR APPLICATION NUMBER: 60/090862  
? PRIOR FILING DATE: 1998-06-26  
? PRIOR APPLICATION NUMBER: 60/090863  
? PRIOR FILING DATE: 1998-06-26  
? PRIOR APPLICATION NUMBER: 60/091360  
? PRIOR FILING DATE: 1998-07-01  
? PRIOR APPLICATION NUMBER: 60/091478  
? PRIOR FILING DATE: 1998-07-02  
? PRIOR APPLICATION NUMBER: 60/091544  
? PRIOR FILING DATE: 1998-07-01  
? PRIOR APPLICATION NUMBER: 60/091519  
? PRIOR FILING DATE: 1998-07-02  
? PRIOR APPLICATION NUMBER: 60/091626  
? PRIOR FILING DATE: 1998-07-02  
? PRIOR APPLICATION NUMBER: 60/091633  
? PRIOR FILING DATE: 1998-07-02  
? PRIOR APPLICATION NUMBER: 60/091978  
? PRIOR FILING DATE: 1998-07-07  
? PRIOR APPLICATION NUMBER: 60/091982  
? PRIOR FILING DATE: 1998-07-07  
? PRIOR APPLICATION NUMBER: 60/092162  
? PRIOR FILING DATE: 1998-07-09

Query Match 63.8% Score 13.4; DB 9; Length 21;

Best Local Similarity 93.38; Pred. Nov. 2, 2003;

Matches 14; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 2 AACATGCGACGCGC 16

Db 4 AACATGCGACGCGC 17

# RESULT 9

US-09-900-115-2

Sequence 428, Application US/09991181

Publication No: US20020197615A1

## GENERAL INFORMATION:

APPLICANT: Ashkenazi, Avi J.

APPLICANT: Baker, Kevin P.

APPLICANT: Botstein, David

APPLICANT: Desnoyers, Luc

APPLICANT: Eaton, Dan L.

APPLICANT: Ferrara, Napoleone

APPLICANT: Fong, Shetman

APPLICANT: Gerber, Hanspeter

APPLICANT: Gerritsen, Mary E.

? APPLICANT: Goddard, Audrey  
? APPLICANT: Godowski, Paul J.  
? APPLICANT: Grimaldi, J. Christopher  
? APPLICANT: Guiney, Austin L.  
? APPLICANT: Kljavin, Ivar J.  
? APPLICANT: Napier, Mary A.  
? APPLICANT: Pan, James  
? APPLICANT: Paoni, Nicholas F.  
? APPLICANT: Roy, Margaret Ann  
? APPLICANT: Stewart, Timothy A.  
? APPLICANT: Tomas, Daniel  
? APPLICANT: Watanabe, Colin K.  
? APPLICANT: Williams, P. Mickey  
? APPLICANT: Wood, William I.  
? APPLICANT: Zhang, Zemin  
? TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic  
? FILE REFERENCE: Acids Encoding the Same  
? CURRENT APPLICATION NUMBER: US/09/991,181  
? CURRENT FILING DATE: 2001-11-16  
? PRIOR APPLICATION NUMBER: 60/049787  
? PRIOR FILING DATE: 1997-06-16  
? PRIOR APPLICATION NUMBER: 60/062250  
? PRIOR FILING DATE: 1997-10-17  
? PRIOR APPLICATION NUMBER: 60/065186  
? PRIOR FILING DATE: 1997-11-12  
? PRIOR APPLICATION NUMBER: 60/065311  
? PRIOR FILING DATE: 1997-11-14  
? PRIOR APPLICATION NUMBER: 60/066770  
? PRIOR FILING DATE: 1997-11-24  
? PRIOR APPLICATION NUMBER: 60/075945  
? PRIOR FILING DATE: 1998-02-25  
? PRIOR APPLICATION NUMBER: 60/078910  
? PRIOR FILING DATE: 1998-03-20  
? PRIOR APPLICATION NUMBER: 60/083322  
? PRIOR FILING DATE: 1998-04-28  
? PRIOR APPLICATION NUMBER: 60/084600  
? PRIOR FILING DATE: 1998-05-07  
? PRIOR APPLICATION NUMBER: 60/087106  
? PRIOR FILING DATE: 1998-05-28  
? PRIOR APPLICATION NUMBER: 60/087607  
? PRIOR FILING DATE: 1998-06-02  
? PRIOR APPLICATION NUMBER: 60/087609  
? PRIOR FILING DATE: 1998-06-02  
? PRIOR APPLICATION NUMBER: 60/087759  
? PRIOR FILING DATE: 1998-06-02  
? PRIOR APPLICATION NUMBER: 60/087827  
? PRIOR FILING DATE: 1998-06-03  
? PRIOR APPLICATION NUMBER: 60/088021  
? PRIOR FILING DATE: 1998-06-04  
? PRIOR APPLICATION NUMBER: 60/088025  
? PRIOR FILING DATE: 1998-06-04  
? PRIOR APPLICATION NUMBER: 60/088026  
? PRIOR FILING DATE: 1998-06-04  
? PRIOR APPLICATION NUMBER: 60/088028  
? PRIOR FILING DATE: 1998-06-04  
? PRIOR APPLICATION NUMBER: 60/088029  
? PRIOR FILING DATE: 1998-06-04  
? PRIOR APPLICATION NUMBER: 60/088030  
? PRIOR FILING DATE: 1998-06-04  
? PRIOR APPLICATION NUMBER: 60/088033  
? PRIOR FILING DATE: 1998-06-04  
? PRIOR APPLICATION NUMBER: 60/088426  
? PRIOR FILING DATE: 1998-06-04  
? PRIOR APPLICATION NUMBER: 60/088167  
? PRIOR FILING DATE: 1998-06-05  
? PRIOR APPLICATION NUMBER: 60/088202  
? PRIOR FILING DATE: 1998-06-05  
? PRIOR APPLICATION NUMBER: 60/088212  
? PRIOR FILING DATE: 1998-06-05  
? PRIOR APPLICATION NUMBER: 60/088217  
? PRIOR FILING DATE: 1998-06-05  
? PRIOR APPLICATION NUMBER: 60/088655

1 PRIOR FILING DATE: 1998-06-09  
 2 PRIOR APPLICATION NUMBER: 60/088744  
 3 PRIOR FILING DATE: 1998-06-10  
 4 PRIOR APPLICATION NUMBER: 60/088748  
 5 PRIOR FILING DATE: 1998-06-10  
 6 PRIOR APPLICATION NUMBER: 60/088742  
 7 PRIOR FILING DATE: 1998-06-10  
 8 PRIOR APPLICATION NUMBER: 60/088810  
 9 PRIOR FILING DATE: 1998-06-10  
 10 PRIOR APPLICATION NUMBER: 60/088824  
 11 PRIOR FILING DATE: 1998-06-10  
 12 PRIOR APPLICATION NUMBER: 60/088826  
 13 PRIOR FILING DATE: 1998-06-10  
 14 PRIOR APPLICATION NUMBER: 60/088858  
 15 PRIOR FILING DATE: 1998-06-11  
 16 PRIOR APPLICATION NUMBER: 60/088861  
 17 PRIOR FILING DATE: 1998-06-11  
 18 PRIOR APPLICATION NUMBER: 60/088876  
 19 PRIOR FILING DATE: 1998-06-11  
 20 PRIOR APPLICATION NUMBER: 60/089105  
 21 PRIOR FILING DATE: 1998-06-12  
 22 PRIOR APPLICATION NUMBER: 60/089440  
 23 PRIOR FILING DATE: 1998-06-16  
 24 PRIOR APPLICATION NUMBER: 60/089512  
 25 PRIOR FILING DATE: 1998-06-16  
 26 PRIOR APPLICATION NUMBER: 60/089514  
 27 PRIOR FILING DATE: 1998-06-16  
 28 PRIOR APPLICATION NUMBER: 60/089542  
 29 PRIOR FILING DATE: 1998-06-17  
 30 PRIOR APPLICATION NUMBER: 60/089548  
 31 PRIOR FILING DATE: 1998-06-17  
 32 PRIOR APPLICATION NUMBER: 60/089548  
 33 PRIOR FILING DATE: 1998-06-17  
 34 PRIOR APPLICATION NUMBER: 60/089549  
 35 PRIOR FILING DATE: 1998-06-17  
 36 PRIOR APPLICATION NUMBER: 60/089600  
 37 PRIOR FILING DATE: 1998-06-17  
 38 PRIOR APPLICATION NUMBER: 60/089653  
 39 PRIOR FILING DATE: 1998-06-17  
 40 PRIOR APPLICATION NUMBER: 60/089801  
 41 PRIOR FILING DATE: 1998-06-18  
 42 PRIOR APPLICATION NUMBER: 60/089907  
 43 PRIOR FILING DATE: 1998-06-18  
 44 PRIOR APPLICATION NUMBER: 60/089908  
 45 PRIOR FILING DATE: 1998-06-18  
 46 PRIOR APPLICATION NUMBER: 60/089947  
 47 PRIOR FILING DATE: 1998-06-19  
 48 PRIOR APPLICATION NUMBER: 60/089948  
 49 PRIOR FILING DATE: 1998-06-19  
 50 PRIOR APPLICATION NUMBER: 60/089942  
 51 PRIOR FILING DATE: 1998-06-19  
 52 PRIOR APPLICATION NUMBER: 60/090246  
 53 PRIOR FILING DATE: 1998-06-22  
 54 PRIOR APPLICATION NUMBER: 60/090252  
 55 PRIOR FILING DATE: 1998-06-22  
 56 PRIOR APPLICATION NUMBER: 60/090254  
 57 PRIOR FILING DATE: 1998-06-22  
 58 PRIOR APPLICATION NUMBER: 60/090439  
 59 PRIOR FILING DATE: 1998-06-24  
 60 PRIOR APPLICATION NUMBER: 60/090455  
 61 PRIOR FILING DATE: 1998-06-24  
 62 PRIOR APPLICATION NUMBER: 60/090429  
 63 PRIOR FILING DATE: 1998-06-24  
 64 PRIOR APPLICATION NUMBER: 60/090441  
 65 PRIOR FILING DATE: 1998-06-24  
 66 PRIOR APPLICATION NUMBER: 60/090445  
 67 PRIOR FILING DATE: 1998-06-24  
 68 PRIOR APPLICATION NUMBER: 60/090444  
 69 PRIOR FILING DATE: 1998-06-24  
 70 PRIOR APPLICATION NUMBER: 60/090445  
 71 PRIOR FILING DATE: 1998-06-24  
 72 PRIOR APPLICATION NUMBER: 60/090442  
 73 PRIOR FILING DATE: 1998-06-24

1 PRIOR APPLICATION NUMBER: 60/090535  
 2 PRIOR FILING DATE: 1998-06-24  
 3 PRIOR APPLICATION NUMBER: 60/090540  
 4 PRIOR FILING DATE: 1998-06-24  
 5 PRIOR APPLICATION NUMBER: 60/090542  
 6 PRIOR FILING DATE: 1998-06-24  
 7 PRIOR APPLICATION NUMBER: 60/090557  
 8 PRIOR FILING DATE: 1998-06-24  
 9 PRIOR APPLICATION NUMBER: 60/090676  
 10 PRIOR FILING DATE: 1998-06-25  
 11 PRIOR APPLICATION NUMBER: 60/090678  
 12 PRIOR FILING DATE: 1998-06-25  
 13 PRIOR APPLICATION NUMBER: 60/090690  
 14 PRIOR FILING DATE: 1998-06-25  
 15 PRIOR APPLICATION NUMBER: 60/090694  
 16 PRIOR FILING DATE: 1998-06-25  
 17 PRIOR APPLICATION NUMBER: 60/090695  
 18 PRIOR FILING DATE: 1998-06-25  
 19 PRIOR APPLICATION NUMBER: 60/090696  
 20 PRIOR FILING DATE: 1998-06-25  
 21 PRIOR APPLICATION NUMBER: 60/090862  
 22 PRIOR FILING DATE: 1998-06-26  
 23 PRIOR APPLICATION NUMBER: 60/090863  
 24 PRIOR FILING DATE: 1998-06-26  
 25 PRIOR APPLICATION NUMBER: 60/091460  
 26 PRIOR FILING DATE: 1998-07-01  
 27 PRIOR APPLICATION NUMBER: 60/091478  
 28 PRIOR FILING DATE: 1998-07-02  
 29 PRIOR APPLICATION NUMBER: 60/091544  
 30 PRIOR FILING DATE: 1998-07-01  
 31 PRIOR APPLICATION NUMBER: 60/091519  
 32 PRIOR FILING DATE: 1998-07-02  
 33 PRIOR APPLICATION NUMBER: 60/091626  
 34 PRIOR FILING DATE: 1998-07-02  
 35 PRIOR APPLICATION NUMBER: 60/091633  
 36 PRIOR FILING DATE: 1998-07-02  
 37 PRIOR APPLICATION NUMBER: 60/091978  
 38 PRIOR FILING DATE: 1998-07-07  
 39 PRIOR APPLICATION NUMBER: 60/091982  
 40 PRIOR FILING DATE: 1998-07-07  
 41 PRIOR APPLICATION NUMBER: 60/092182  
 42 PRIOR FILING DATE: 1998-07-09

Query Match: 63.88% Score: 10.4; DB: 9; Length: 21;  
 Best Local Similarity: 93.49%; Pred. No. 2: 60043;  
 Matches: 14; Character Size: 0; Mismatches: 1; Indels: 0; Gaps: 0;

QY 2 AAAAAAGGAGGGG 16

DB 3 AAAAAAGGAGGGG 17

RESULT 10

US 09-995-687-428

1 Sequence: 428; Application US/09994687  
 2 Publication No. US20020196149A1  
 3 GENERAL INFORMATION:  
 4 APPLICANT: Ashkenazi, Avi J.  
 5 APPLICANT: Baker, Kevin P.  
 6 APPLICANT: Bodstetler, David  
 7 APPLICANT: Desnoyers, John  
 8 APPLICANT: Eaton, Dan L.  
 9 APPLICANT: Ferrara, Napoleone  
 10 APPLICANT: Ford, Sherman  
 11 APPLICANT: Garber, Hanspeter  
 12 APPLICANT: Gottlieb, Mary E.  
 13 APPLICANT: Goddard, Audrey  
 14 APPLICANT: Godowski, Paul J.  
 15 APPLICANT: Grimaldi, Christopher  
 16 APPLICANT: Harney, Austin L.  
 17 APPLICANT: Klevorn, David J.  
 18 APPLICANT: Napier, Mary A.  
 19 APPLICANT: Pan, James

1 APPLICANT: Faoni, Nicholas F.  
 2 APPLICANT: Roy, Margaret Ann  
 3 APPLICANT: Stewart, Timothy A.  
 4 APPLICANT: James, Daniel  
 5 APPLICANT: Watanabe, Colin K.  
 6 APPLICANT: Williams, P. Mickey  
 7 APPLICANT: Wood, William L.  
 8 APPLICANT: Zhang, Zemin  
 9 TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic  
 10 TITLE OF INVENTION: Acids Encoded the Same  
 11 FILE REFERENCE: P27301C11  
 12 CURRENT APPLICATION NUMBER: US/09/993,687  
 13 CURRENT FILING DATE: 2002-11-14  
 14 PRIOR APPLICATION NUMBER: 60/049787  
 15 PRIOR FILING DATE: 1997-06-16  
 16 PRIOR APPLICATION NUMBER: 60/062250  
 17 PRIOR FILING DATE: 1997-10-17  
 18 PRIOR APPLICATION NUMBER: 60/065186  
 19 PRIOR FILING DATE: 1997-11-12  
 20 PRIOR APPLICATION NUMBER: 60/065311  
 21 PRIOR FILING DATE: 1997-11-13  
 22 PRIOR APPLICATION NUMBER: 60/066770  
 23 PRIOR FILING DATE: 1997-11-24  
 24 PRIOR APPLICATION NUMBER: 60/075945  
 25 PRIOR FILING DATE: 1998-02-25  
 26 PRIOR APPLICATION NUMBER: 60/078910  
 27 PRIOR FILING DATE: 1998-03-20  
 28 PRIOR APPLICATION NUMBER: 60/083322  
 29 PRIOR FILING DATE: 1998-04-28  
 30 PRIOR APPLICATION NUMBER: 60/084600  
 31 PRIOR FILING DATE: 1998-05-07  
 32 PRIOR APPLICATION NUMBER: 60/087106  
 33 PRIOR FILING DATE: 1998-05-28  
 34 PRIOR APPLICATION NUMBER: 60/087607  
 35 PRIOR FILING DATE: 1998-06-02  
 36 PRIOR APPLICATION NUMBER: 60/087609  
 37 PRIOR FILING DATE: 1998-06-02  
 38 PRIOR APPLICATION NUMBER: 60/087759  
 39 PRIOR FILING DATE: 1998-06-02  
 40 PRIOR APPLICATION NUMBER: 60/087827  
 41 PRIOR FILING DATE: 1998-06-03  
 42 PRIOR APPLICATION NUMBER: 60/088021  
 43 PRIOR FILING DATE: 1998-06-04  
 44 PRIOR APPLICATION NUMBER: 60/088025  
 45 PRIOR FILING DATE: 1998-06-04  
 46 PRIOR APPLICATION NUMBER: 60/088026  
 47 PRIOR FILING DATE: 1998-06-04  
 48 PRIOR APPLICATION NUMBER: 60/088028  
 49 PRIOR FILING DATE: 1998-06-04  
 50 PRIOR APPLICATION NUMBER: 60/088029  
 51 PRIOR FILING DATE: 1998-06-04  
 52 PRIOR APPLICATION NUMBER: 60/088030  
 53 PRIOR FILING DATE: 1998-06-04  
 54 PRIOR APPLICATION NUMBER: 60/088033  
 55 PRIOR FILING DATE: 1998-06-04  
 56 PRIOR APPLICATION NUMBER: 60/088326  
 57 PRIOR FILING DATE: 1998-06-04  
 58 PRIOR APPLICATION NUMBER: 60/088167  
 59 PRIOR FILING DATE: 1998-06-05  
 60 PRIOR APPLICATION NUMBER: 60/088202  
 61 PRIOR FILING DATE: 1998-06-05  
 62 PRIOR APPLICATION NUMBER: 60/088212  
 63 PRIOR FILING DATE: 1998-06-05  
 64 PRIOR APPLICATION NUMBER: 60/088217  
 65 PRIOR FILING DATE: 1998-06-05  
 66 PRIOR APPLICATION NUMBER: 60/088655  
 67 PRIOR FILING DATE: 1998-06-09  
 68 PRIOR APPLICATION NUMBER: 60/088734  
 69 PRIOR FILING DATE: 1998-06-10  
 70 PRIOR APPLICATION NUMBER: 60/088748  
 71 PRIOR FILING DATE: 1998-06-10  
 72 PRIOR APPLICATION NUMBER: 60/088742  
 73 PRIOR FILING DATE: 1998-06-10  
 74 PRIOR APPLICATION NUMBER: 60/088810  
 75 PRIOR FILING DATE: 1998-06-10  
 76 PRIOR APPLICATION NUMBER: 60/088824  
 77 PRIOR FILING DATE: 1998-06-10  
 78 PRIOR APPLICATION NUMBER: 60/088826  
 79 PRIOR FILING DATE: 1998-06-10  
 80 PRIOR APPLICATION NUMBER: 60/088858  
 81 PRIOR FILING DATE: 1998-06-11  
 82 PRIOR APPLICATION NUMBER: 60/088861  
 83 PRIOR FILING DATE: 1998-06-11  
 84 PRIOR APPLICATION NUMBER: 60/088876  
 85 PRIOR FILING DATE: 1998-06-11  
 86 PRIOR APPLICATION NUMBER: 60/089105  
 87 PRIOR FILING DATE: 1998-06-12  
 88 PRIOR APPLICATION NUMBER: 60/089440  
 89 PRIOR FILING DATE: 1998-06-16  
 90 PRIOR APPLICATION NUMBER: 60/089512  
 91 PRIOR FILING DATE: 1998-06-16  
 92 PRIOR APPLICATION NUMBER: 60/089514  
 93 PRIOR FILING DATE: 1998-06-16  
 94 PRIOR APPLICATION NUMBER: 60/089542  
 95 PRIOR FILING DATE: 1998-06-17  
 96 PRIOR APPLICATION NUMBER: 60/089548  
 97 PRIOR FILING DATE: 1998-06-17  
 98 PRIOR APPLICATION NUMBER: 60/089598  
 99 PRIOR FILING DATE: 1998-06-17  
 100 PRIOR APPLICATION NUMBER: 60/089599  
 101 PRIOR FILING DATE: 1998-06-17  
 102 PRIOR APPLICATION NUMBER: 60/089600  
 103 PRIOR FILING DATE: 1998-06-17  
 104 PRIOR APPLICATION NUMBER: 60/089653  
 105 PRIOR FILING DATE: 1998-06-17  
 106 PRIOR APPLICATION NUMBER: 60/089801  
 107 PRIOR FILING DATE: 1998-06-18  
 108 PRIOR APPLICATION NUMBER: 60/089907  
 109 PRIOR FILING DATE: 1998-06-18  
 110 PRIOR APPLICATION NUMBER: 60/089908  
 111 PRIOR FILING DATE: 1998-06-18  
 112 PRIOR APPLICATION NUMBER: 60/089947  
 113 PRIOR FILING DATE: 1998-06-19  
 114 PRIOR APPLICATION NUMBER: 60/089948  
 115 PRIOR FILING DATE: 1998-06-19  
 116 PRIOR APPLICATION NUMBER: 60/089952  
 117 PRIOR FILING DATE: 1998-06-19  
 118 PRIOR APPLICATION NUMBER: 60/090246  
 119 PRIOR FILING DATE: 1998-06-22  
 120 PRIOR APPLICATION NUMBER: 60/090252  
 121 PRIOR FILING DATE: 1998-06-22  
 122 PRIOR APPLICATION NUMBER: 60/090254  
 123 PRIOR FILING DATE: 1998-06-22  
 124 PRIOR APPLICATION NUMBER: 60/090349  
 125 PRIOR FILING DATE: 1998-06-23  
 126 PRIOR APPLICATION NUMBER: 60/090355  
 127 PRIOR FILING DATE: 1998-06-23  
 128 PRIOR APPLICATION NUMBER: 60/090429  
 129 PRIOR FILING DATE: 1998-06-24  
 130 PRIOR APPLICATION NUMBER: 60/090441  
 131 PRIOR FILING DATE: 1998-06-24  
 132 PRIOR APPLICATION NUMBER: 60/090445  
 133 PRIOR FILING DATE: 1998-06-24  
 134 PRIOR APPLICATION NUMBER: 60/090472  
 135 PRIOR FILING DATE: 1998-06-24  
 136 PRIOR APPLICATION NUMBER: 60/090535  
 137 PRIOR FILING DATE: 1998-06-24  
 138 PRIOR APPLICATION NUMBER: 60/090540  
 139 PRIOR FILING DATE: 1998-06-24  
 140 PRIOR APPLICATION NUMBER: 60/090542  
 141 PRIOR FILING DATE: 1998-06-24  
 142 PRIOR APPLICATION NUMBER: 60/090557

```

1 PRIOR FILING DATE: 1998-06-24
2 PRIOR APPLICATION NUMBER: 60/090676
3 PRIOR FILING DATE: 1998-06-25
4 PRIOR APPLICATION NUMBER: 60/090678
5 PRIOR FILING DATE: 1998-06-25
6 PRIOR APPLICATION NUMBER: 60/090690
7 PRIOR FILING DATE: 1998-06-25
8 PRIOR APPLICATION NUMBER: 60/090694
9 PRIOR FILING DATE: 1998-06-25
10 PRIOR APPLICATION NUMBER: 60/090695
11 PRIOR FILING DATE: 1998-06-25
12 PRIOR APPLICATION NUMBER: 60/090696
13 PRIOR FILING DATE: 1998-06-25
14 PRIOR APPLICATION NUMBER: 60/090862
15 PRIOR FILING DATE: 1998-06-26
16 PRIOR APPLICATION NUMBER: 60/090863
17 PRIOR FILING DATE: 1998-06-26
18 PRIOR APPLICATION NUMBER: 60/091450
19 PRIOR FILING DATE: 1998-07-01
20 PRIOR APPLICATION NUMBER: 60/091478
21 PRIOR FILING DATE: 1998-07-02
22 PRIOR APPLICATION NUMBER: 60/091544
23 PRIOR FILING DATE: 1998-07-01
24 PRIOR APPLICATION NUMBER: 60/091519
25 PRIOR FILING DATE: 1998-07-02
26 PRIOR APPLICATION NUMBER: 60/091626
27 PRIOR FILING DATE: 1998-07-02
28 PRIOR APPLICATION NUMBER: 60/091633
29 PRIOR FILING DATE: 1998-07-02
30 PRIOR APPLICATION NUMBER: 60/091978
31 PRIOR FILING DATE: 1998-07-07
32 PRIOR APPLICATION NUMBER: 60/091982
33 PRIOR FILING DATE: 1998-07-07
34 PRIOR APPLICATION NUMBER: 60/092182
35 PRIOR FILING DATE: 1998-07-09

```

Query Match 64.88; Score 13.4; DR 9; Length 21;

Best Local Similarity 94.48; Pred. No. 2,40034;

Matches 14; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 2 ACCGATGACACCC 16

11111111111111111111

Db 3 ACCGATGACACCC 17

RESULT 11

US-09-989-744-428

Sequence 428, Application US/09089744

Publication No. US2003000531A1

GENERAL INFORMATION:

APPLICANT: Ashkenazi, Avi J.

APPLICANT: Baker, Kevin P.

APPLICANT: Bolstein, David

APPLICANT: Desnoyers, Luc

APPLICANT: Eaton, Dan L.

APPLICANT: Ferrara, Napoleone

APPLICANT: Fond, Sherman

APPLICANT: Gerber, Hanspeter

APPLICANT: Gerlt, Sen, Mary E.

APPLICANT: Goddard, Audrey

APPLICANT: Godowski, Paul J.

APPLICANT: Grimaldi, J. Christopher

APPLICANT: Gueney, Austen L.

APPLICANT: Klevin, Ivar J.

APPLICANT: Napier, Mary A.

APPLICANT: Pan, James

APPLICANT: Paoletti, Nicholas F.

APPLICANT: Roy, Margaret Ann

APPLICANT: Stewart, Timothy A.

APPLICANT: Thomas, Daniel

APPLICANT: Watanabe, Colin K.

APPLICANT: Williams, P. Mickey

APPLICANT: Wood, William L.

```

1 APPLICANT: Zhang, Zemin
2 TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
3 FILE OF INVENTION: Acids Encoded the Same
4 FILE REFERENCE: 12761164
5 CURRENT APPLICATION NUMBER: US/09/989,744
6 PRIOR FILING DATE: 2001-11-19
7 PRIOR APPLICATION NUMBER: 60/049787
8 PRIOR FILING DATE: 1997-06-16
9 PRIOR APPLICATION NUMBER: 60/062250
10 PRIOR FILING DATE: 1997-10-17
11 PRIOR APPLICATION NUMBER: 60/065186
12 PRIOR FILING DATE: 1997-11-12
13 PRIOR APPLICATION NUMBER: 60/065411
14 PRIOR FILING DATE: 1997-11-14
15 PRIOR APPLICATION NUMBER: 60/066170
16 PRIOR FILING DATE: 1997-11-24
17 PRIOR APPLICATION NUMBER: 60/075945
18 PRIOR FILING DATE: 1998-02-25
19 PRIOR APPLICATION NUMBER: 60/078910
20 PRIOR FILING DATE: 1998-03-20
21 PRIOR APPLICATION NUMBER: 60/083422
22 PRIOR FILING DATE: 1998-03-28
23 PRIOR APPLICATION NUMBER: 60/084600
24 PRIOR FILING DATE: 1998-05-07
25 PRIOR APPLICATION NUMBER: 60/087106
26 PRIOR FILING DATE: 1998-05-28
27 PRIOR APPLICATION NUMBER: 60/087607
28 PRIOR FILING DATE: 1998-06-02
29 PRIOR APPLICATION NUMBER: 60/087609
30 PRIOR FILING DATE: 1998-06-02
31 PRIOR APPLICATION NUMBER: 60/087759
32 PRIOR FILING DATE: 1998-06-02
33 PRIOR APPLICATION NUMBER: 60/087827
34 PRIOR FILING DATE: 1998-06-03
35 PRIOR APPLICATION NUMBER: 60/088021
36 PRIOR FILING DATE: 1998-06-04
37 PRIOR APPLICATION NUMBER: 60/088025
38 PRIOR FILING DATE: 1998-06-04
39 PRIOR APPLICATION NUMBER: 60/088026
40 PRIOR FILING DATE: 1998-06-04
41 PRIOR APPLICATION NUMBER: 60/088028
42 PRIOR FILING DATE: 1998-06-04
43 PRIOR APPLICATION NUMBER: 60/088029
44 PRIOR FILING DATE: 1998-06-04
45 PRIOR APPLICATION NUMBER: 60/088030
46 PRIOR FILING DATE: 1998-06-04
47 PRIOR APPLICATION NUMBER: 60/088033
48 PRIOR FILING DATE: 1998-06-04
49 PRIOR APPLICATION NUMBER: 60/088426
50 PRIOR FILING DATE: 1998-06-04
51 PRIOR APPLICATION NUMBER: 60/088167
52 PRIOR FILING DATE: 1998-06-05
53 PRIOR APPLICATION NUMBER: 60/088202
54 PRIOR FILING DATE: 1998-06-05
55 PRIOR APPLICATION NUMBER: 60/088212
56 PRIOR FILING DATE: 1998-06-05
57 PRIOR APPLICATION NUMBER: 60/088217
58 PRIOR FILING DATE: 1998-06-05
59 PRIOR APPLICATION NUMBER: 60/088655
60 PRIOR FILING DATE: 1998-06-09
61 PRIOR APPLICATION NUMBER: 60/088744
62 PRIOR FILING DATE: 1998-06-10
63 PRIOR APPLICATION NUMBER: 60/088748
64 PRIOR FILING DATE: 1998-06-10
65 PRIOR APPLICATION NUMBER: 60/088742
66 PRIOR FILING DATE: 1998-06-10
67 PRIOR APPLICATION NUMBER: 60/088810
68 PRIOR FILING DATE: 1998-06-10
69 PRIOR APPLICATION NUMBER: 60/088824
70 PRIOR FILING DATE: 1998-06-10
71 PRIOR APPLICATION NUMBER: 60/088826
72 PRIOR FILING DATE: 1998-06-10
73 PRIOR APPLICATION NUMBER: 60/088858

```



Query Match 63.8%; Score 13.4; DB 9; Length 21;  
Best Local Similarity 98.3%; Pred. No. 2.3e+03;  
Matches 14; Conservative 0; Mismatches 1; Indels;

```

RESUL: 12
US / 09-997-65-4-248
US / Sequence 428, Application US/09997653
Publication No. US20030098247A1
GENERAL INVENTION:
: APPLICANT: Ashkenazi, Avi J.
: APPLICANT: Baker, Kevin P.
: APPLICANT: Badstein, David
: APPLICANT: Bernstein, J.
: APPLICANT: Eshkol-Dan, J.
: APPLICANT: Fortaria, Napoleone
: APPLICANT: Fount, Sherman
: APPLICANT: Gerber, Hanspeter
: APPLICANT: Gertliss, Mary E.
: APPLICANT: Goodard, Audrey
: APPLICANT: Guboski, Paul J.
: APPLICANT: Grimaldi, J. Christopher
: APPLICANT: Gurney, Austen J.
: APPLICANT: Klavin, Ivor J.
: APPLICANT: Napier, Mary A.
: APPLICANT: Pan, James
: APPLICANT: Pooni, Nicholas F.
: APPLICANT: Roy, Murdoch Ann
: APPLICANT: Stewart, Timothy A.
: APPLICANT: Tomas, Daniel
: APPLICANT: Watanabe, Colin K.
: APPLICANT: Williams, P. Mickey
: APPLICANT: Wood, William L.
: APPLICANT: Zarut, Zemin
: TITLE OF INVENTION: Acids Encoding and
: FILE REFERENCE: P270P1C48
: CURRENT APPLICATION NUMBER: US/09/997653
: CURRENT FILING DATE: 2001-11-15
: PRIOR APPLICATION NUMBER: 60/045707

```

[illegible]



1 PRIOR FILING DATE: 1998-06-17  
 2 PRIOR APPLICATION NUMBER: 60/089548  
 3 PRIOR FILING DATE: 1998-06-17  
 4 PRIOR APPLICATION NUMBER: 60/089508  
 5 PRIOR FILING DATE: 1998-06-17  
 6 PRIOR APPLICATION NUMBER: 60/089599  
 7 PRIOR FILING DATE: 1998-06-17  
 8 PRIOR APPLICATION NUMBER: 60/089600  
 9 PRIOR FILING DATE: 1998-06-17  
 10 PRIOR APPLICATION NUMBER: 60/089653  
 11 PRIOR FILING DATE: 1998-06-17  
 12 PRIOR APPLICATION NUMBER: 60/089801  
 13 PRIOR FILING DATE: 1998-06-18  
 14 PRIOR APPLICATION NUMBER: 60/089907  
 15 PRIOR FILING DATE: 1998-06-18  
 16 PRIOR APPLICATION NUMBER: 60/089908  
 17 PRIOR FILING DATE: 1998-06-18  
 18 PRIOR APPLICATION NUMBER: 60/089947  
 19 PRIOR FILING DATE: 1998-06-19  
 20 PRIOR APPLICATION NUMBER: 60/089948  
 21 PRIOR FILING DATE: 1998-06-19  
 22 PRIOR APPLICATION NUMBER: 60/089952  
 23 PRIOR FILING DATE: 1998-06-19  
 24 PRIOR APPLICATION NUMBER: 60/090246  
 25 PRIOR FILING DATE: 1998-06-22  
 26 PRIOR APPLICATION NUMBER: 60/090252  
 27 PRIOR FILING DATE: 1998-06-22  
 28 PRIOR APPLICATION NUMBER: 60/090254  
 29 PRIOR FILING DATE: 1998-06-22  
 30 PRIOR APPLICATION NUMBER: 60/090449  
 31 PRIOR FILING DATE: 1998-06-24  
 32 PRIOR APPLICATION NUMBER: 60/090455  
 33 PRIOR FILING DATE: 1998-06-24  
 34 PRIOR APPLICATION NUMBER: 60/090429  
 35 PRIOR FILING DATE: 1998-06-24  
 36 PRIOR APPLICATION NUMBER: 60/090431  
 37 PRIOR FILING DATE: 1998-06-24  
 38 PRIOR APPLICATION NUMBER: 60/090445  
 39 PRIOR FILING DATE: 1998-06-24  
 40 PRIOR APPLICATION NUMBER: 60/090472  
 41 PRIOR FILING DATE: 1998-06-24  
 42 PRIOR APPLICATION NUMBER: 60/090545  
 43 PRIOR FILING DATE: 1998-06-24  
 44 PRIOR APPLICATION NUMBER: 60/090444  
 45 PRIOR FILING DATE: 1998-06-24  
 46 PRIOR APPLICATION NUMBER: 60/090445  
 47 PRIOR FILING DATE: 1998-06-24  
 48 PRIOR APPLICATION NUMBER: 60/090542  
 49 PRIOR FILING DATE: 1998-06-24  
 50 PRIOR APPLICATION NUMBER: 60/090557  
 51 PRIOR FILING DATE: 1998-06-24  
 52 PRIOR APPLICATION NUMBER: 60/090676  
 53 PRIOR FILING DATE: 1998-06-25  
 54 PRIOR APPLICATION NUMBER: 60/090678  
 55 PRIOR FILING DATE: 1998-06-25  
 56 PRIOR APPLICATION NUMBER: 60/090690  
 57 PRIOR FILING DATE: 1998-06-25  
 58 PRIOR APPLICATION NUMBER: 60/090694  
 59 PRIOR FILING DATE: 1998-06-25  
 60 PRIOR APPLICATION NUMBER: 60/090695  
 61 PRIOR FILING DATE: 1998-06-25  
 62 PRIOR APPLICATION NUMBER: 60/090696  
 63 PRIOR FILING DATE: 1998-06-25  
 64 PRIOR APPLICATION NUMBER: 60/090862  
 65 PRIOR FILING DATE: 1998-06-26  
 66 PRIOR APPLICATION NUMBER: 60/090864  
 67 PRIOR FILING DATE: 1998-06-26  
 68 PRIOR APPLICATION NUMBER: 60/091460  
 69 PRIOR FILING DATE: 1998-07-01  
 70 PRIOR APPLICATION NUMBER: 60/091478  
 71 PRIOR FILING DATE: 1998-07-02

1 PRIOR APPLICATION NUMBER: 60/091544  
 2 PRIOR FILING DATE: 1998-07-01  
 3 PRIOR APPLICATION NUMBER: 60/091519  
 4 PRIOR FILING DATE: 1998-07-02  
 5 PRIOR APPLICATION NUMBER: 60/091626  
 6 PRIOR FILING DATE: 1998-07-02  
 7 PRIOR APPLICATION NUMBER: 60/091644  
 8 PRIOR FILING DATE: 1998-07-02  
 9 PRIOR APPLICATION NUMBER: 60/091978  
 10 PRIOR FILING DATE: 1998-07-07  
 11 PRIOR APPLICATION NUMBER: 60/091982  
 12 PRIOR FILING DATE: 1998-07-07  
 13 PRIOR APPLICATION NUMBER: 60/092182  
 14 PRIOR FILING DATE: 1998-07-09

Query Match: 63.88; Score: 13.4; DB: 9; Length: 21;  
 Best Local Similarity: 93.48; Pred. No.: 2.0003;

Matches: 14; Conserved: 0; Mismatches: 1; Indels: 0; Gaps: 0;

QY 2 ACCAATGGAGGCG 16

DB 3 ACCAATGGAGGCG 17

# RESULT 14

US-09-900-448-428  
 Sequence 428, Application No. US-099900448

Publication No. US200302754A1

## GENERAL INFORMATION:

1 APPLICANT: Ashkenazi, Avi J.  
 2 APPLICANT: Baker, Kevin P.  
 3 APPLICANT: Bodstein, David  
 4 APPLICANT: Bushowers, Luc  
 5 APPLICANT: Eaton, Dan L.  
 6 APPLICANT: Ferrara, Napoleone  
 7 APPLICANT: Fong, Sherman  
 8 APPLICANT: Gerber, Hanspeter  
 9 APPLICANT: Gottlieb, Mary E.  
 10 APPLICANT: Gubbard, Andrew  
 11 APPLICANT: Gudowski, Paul J.  
 12 APPLICANT: Gilmadi, John Christopher  
 13 APPLICANT: Gurney, Austin L.  
 14 APPLICANT: Klapins, Izar J.  
 15 APPLICANT: Napier, Mary A.  
 16 APPLICANT: Pan, James  
 17 APPLICANT: Paoletti, Nicholas F.  
 18 APPLICANT: Roy, Margaret Ann  
 19 APPLICANT: Stewart, Timothy A.  
 20 APPLICANT: Thomas, Daniel  
 21 APPLICANT: Watanabe, Colin K.  
 22 APPLICANT: Williams, P. Mickey  
 23 APPLICANT: Wood, William L.  
 24 APPLICANT: Zhanel, Zevadin  
 25 TITLE OF INVENTION: Sorted and Transmembrane Polypeptides and Nucleic  
 26 FILE OF INVENTION: Amino Acids Encoding The Same  
 27 FILE REFERENCE: 127-00134  
 28 CURRENT APPLICATION NUMBER: US-099900448  
 29 CURRENT FILING DATE: 2001-11-14  
 30 PRIOR APPLICATION NUMBER: 60/049787  
 31 PRIOR FILING DATE: 1997-06-16  
 32 PRIOR APPLICATION NUMBER: 60/062250  
 33 PRIOR FILING DATE: 1997-10-17  
 34 PRIOR APPLICATION NUMBER: 60/065186  
 35 PRIOR FILING DATE: 1997-11-12  
 36 PRIOR APPLICATION NUMBER: 60/065311  
 37 PRIOR FILING DATE: 1997-11-14  
 38 PRIOR APPLICATION NUMBER: 60/066770  
 39 PRIOR FILING DATE: 1997-11-24  
 40 PRIOR APPLICATION NUMBER: 60/075945  
 41 PRIOR FILING DATE: 1998-02-25  
 42 PRIOR APPLICATION NUMBER: 60/078910  
 43 PRIOR FILING DATE: 1998-03-26  
 44 PRIOR APPLICATION NUMBER: 60/083522

1 PRIOR FILING DATE: 1998-04-28  
2 PRIOR APPLICATION NUMBER: 60/084600  
3 PRIOR FILING DATE: 1998-05-07  
4 PRIOR APPLICATION NUMBER: 60/087106  
5 PRIOR FILING DATE: 1998-05-28  
6 PRIOR APPLICATION NUMBER: 60/087607  
7 PRIOR FILING DATE: 1998-06-02  
8 PRIOR APPLICATION NUMBER: 60/087609  
9 PRIOR FILING DATE: 1998-06-02  
10 PRIOR APPLICATION NUMBER: 60/087759  
11 PRIOR FILING DATE: 1998-06-02  
12 PRIOR APPLICATION NUMBER: 60/087827  
13 PRIOR FILING DATE: 1998-06-04  
14 PRIOR APPLICATION NUMBER: 60/088021  
15 PRIOR FILING DATE: 1998-06-04  
16 PRIOR APPLICATION NUMBER: 60/088025  
17 PRIOR FILING DATE: 1998-06-04  
18 PRIOR APPLICATION NUMBER: 60/088026  
19 PRIOR FILING DATE: 1998-06-04  
20 PRIOR APPLICATION NUMBER: 60/088028  
21 PRIOR FILING DATE: 1998-06-04  
22 PRIOR APPLICATION NUMBER: 60/088029  
23 PRIOR FILING DATE: 1998-06-04  
24 PRIOR APPLICATION NUMBER: 60/088030  
25 PRIOR FILING DATE: 1998-06-04  
26 PRIOR APPLICATION NUMBER: 60/088033  
27 PRIOR FILING DATE: 1998-06-04  
28 PRIOR APPLICATION NUMBER: 60/088426  
29 PRIOR FILING DATE: 1998-06-04  
30 PRIOR APPLICATION NUMBER: 60/088167  
31 PRIOR FILING DATE: 1998-06-05  
32 PRIOR APPLICATION NUMBER: 60/088202  
33 PRIOR FILING DATE: 1998-06-05  
34 PRIOR APPLICATION NUMBER: 60/088212  
35 PRIOR FILING DATE: 1998-06-05  
36 PRIOR APPLICATION NUMBER: 60/088217  
37 PRIOR FILING DATE: 1998-06-05  
38 PRIOR APPLICATION NUMBER: 60/088655  
39 PRIOR FILING DATE: 1998-06-09  
40 PRIOR APPLICATION NUMBER: 60/088744  
41 PRIOR FILING DATE: 1998-06-10  
42 PRIOR APPLICATION NUMBER: 60/088748  
43 PRIOR FILING DATE: 1998-06-10  
44 PRIOR APPLICATION NUMBER: 60/088742  
45 PRIOR FILING DATE: 1998-06-10  
46 PRIOR APPLICATION NUMBER: 60/088810  
47 PRIOR FILING DATE: 1998-06-10  
48 PRIOR APPLICATION NUMBER: 60/088824  
49 PRIOR FILING DATE: 1998-06-10  
50 PRIOR APPLICATION NUMBER: 60/088826  
51 PRIOR FILING DATE: 1998-06-10  
52 PRIOR APPLICATION NUMBER: 60/088858  
53 PRIOR FILING DATE: 1998-06-11  
54 PRIOR APPLICATION NUMBER: 60/088861  
55 PRIOR FILING DATE: 1998-06-11  
56 PRIOR APPLICATION NUMBER: 60/088876  
57 PRIOR FILING DATE: 1998-06-11  
58 PRIOR APPLICATION NUMBER: 60/089105  
59 PRIOR FILING DATE: 1998-06-12  
60 PRIOR APPLICATION NUMBER: 60/089440  
61 PRIOR FILING DATE: 1998-06-16  
62 PRIOR APPLICATION NUMBER: 60/089512  
63 PRIOR FILING DATE: 1998-06-16  
64 PRIOR APPLICATION NUMBER: 60/089514  
65 PRIOR FILING DATE: 1998-06-16  
66 PRIOR APPLICATION NUMBER: 60/089542  
67 PRIOR FILING DATE: 1998-06-17  
68 PRIOR APPLICATION NUMBER: 60/089548  
69 PRIOR FILING DATE: 1998-06-17  
70 PRIOR APPLICATION NUMBER: 60/089598  
71 PRIOR FILING DATE: 1998-06-17  
72 PRIOR APPLICATION NUMBER: 60/089599  
73 PRIOR FILING DATE: 1998-06-17  
74 PRIOR APPLICATION NUMBER: 60/089600  
75 PRIOR FILING DATE: 1998-06-17  
76 PRIOR APPLICATION NUMBER: 60/089653  
77 PRIOR FILING DATE: 1998-06-17  
78 PRIOR APPLICATION NUMBER: 60/089801  
79 PRIOR FILING DATE: 1998-06-18  
80 PRIOR APPLICATION NUMBER: 60/089907  
81 PRIOR FILING DATE: 1998-06-18  
82 PRIOR APPLICATION NUMBER: 60/089908  
83 PRIOR FILING DATE: 1998-06-18  
84 PRIOR APPLICATION NUMBER: 60/089947  
85 PRIOR FILING DATE: 1998-06-19  
86 PRIOR APPLICATION NUMBER: 60/089948  
87 PRIOR FILING DATE: 1998-06-19  
88 PRIOR APPLICATION NUMBER: 60/089952  
89 PRIOR FILING DATE: 1998-06-19  
90 PRIOR APPLICATION NUMBER: 60/090246  
91 PRIOR FILING DATE: 1998-06-22  
92 PRIOR APPLICATION NUMBER: 60/090252  
93 PRIOR FILING DATE: 1998-06-22  
94 PRIOR APPLICATION NUMBER: 60/090254  
95 PRIOR FILING DATE: 1998-06-22  
96 PRIOR APPLICATION NUMBER: 60/090349  
97 PRIOR FILING DATE: 1998-06-24  
98 PRIOR APPLICATION NUMBER: 60/090355  
99 PRIOR FILING DATE: 1998-06-24  
100 PRIOR APPLICATION NUMBER: 60/090429  
101 PRIOR FILING DATE: 1998-06-24  
102 PRIOR APPLICATION NUMBER: 60/090441  
103 PRIOR FILING DATE: 1998-06-24  
104 PRIOR APPLICATION NUMBER: 60/090435  
105 PRIOR FILING DATE: 1998-06-24  
106 PRIOR APPLICATION NUMBER: 60/090444  
107 PRIOR FILING DATE: 1998-06-24  
108 PRIOR APPLICATION NUMBER: 60/090445  
109 PRIOR FILING DATE: 1998-06-24  
110 PRIOR APPLICATION NUMBER: 60/090472  
111 PRIOR FILING DATE: 1998-06-24  
112 PRIOR APPLICATION NUMBER: 60/090535  
113 PRIOR FILING DATE: 1998-06-24  
114 PRIOR APPLICATION NUMBER: 60/090540  
115 PRIOR FILING DATE: 1998-06-24  
116 PRIOR APPLICATION NUMBER: 60/090542  
117 PRIOR FILING DATE: 1998-06-24  
118 PRIOR APPLICATION NUMBER: 60/090557  
119 PRIOR FILING DATE: 1998-06-24  
120 PRIOR APPLICATION NUMBER: 60/090676  
121 PRIOR FILING DATE: 1998-06-25  
122 PRIOR APPLICATION NUMBER: 60/090678  
123 PRIOR FILING DATE: 1998-06-25  
124 PRIOR APPLICATION NUMBER: 60/090690  
125 PRIOR FILING DATE: 1998-06-25  
126 PRIOR APPLICATION NUMBER: 60/090694  
127 PRIOR FILING DATE: 1998-06-25  
128 PRIOR APPLICATION NUMBER: 60/090695  
129 PRIOR FILING DATE: 1998-06-25  
130 PRIOR APPLICATION NUMBER: 60/090696  
131 PRIOR FILING DATE: 1998-06-25  
132 PRIOR APPLICATION NUMBER: 60/090862  
133 PRIOR FILING DATE: 1998-06-26  
134 PRIOR APPLICATION NUMBER: 60/090863  
135 PRIOR FILING DATE: 1998-06-26  
136 PRIOR APPLICATION NUMBER: 60/091460  
137 PRIOR FILING DATE: 1998-07-01  
138 PRIOR APPLICATION NUMBER: 60/091478  
139 PRIOR FILING DATE: 1998-07-02  
140 PRIOR APPLICATION NUMBER: 60/091544  
141 PRIOR FILING DATE: 1998-07-01  
142 PRIOR APPLICATION NUMBER: 60/091519  
143 PRIOR FILING DATE: 1998-07-02  
144 PRIOR APPLICATION NUMBER: 60/091626  
145 PRIOR FILING DATE: 1998-07-02  
146 PRIOR APPLICATION NUMBER: 60/091644



2 PRIOR FILING DATE: 1998-06-18  
2 PRIOR APPLICATION NUMBER: 60/089908  
2 PRIOR FILING DATE: 1998-06-18  
2 PRIOR APPLICATION NUMBER: 60/089947  
2 PRIOR FILING DATE: 1998-06-19  
2 PRIOR APPLICATION NUMBER: 60/089948  
2 PRIOR FILING DATE: 1998-06-19  
2 PRIOR APPLICATION NUMBER: 60/089952  
2 PRIOR FILING DATE: 1998-06-19  
2 PRIOR APPLICATION NUMBER: 60/090246  
2 PRIOR FILING DATE: 1998-06-22  
2 PRIOR APPLICATION NUMBER: 60/090252  
2 PRIOR FILING DATE: 1998-06-22  
2 PRIOR APPLICATION NUMBER: 60/090254  
2 PRIOR FILING DATE: 1998-06-22  
2 PRIOR APPLICATION NUMBER: 60/090349  
2 PRIOR FILING DATE: 1998-06-24  
2 PRIOR APPLICATION NUMBER: 60/090355  
2 PRIOR FILING DATE: 1998-06-24  
2 PRIOR APPLICATION NUMBER: 60/090429  
2 PRIOR FILING DATE: 1998-06-24  
2 PRIOR APPLICATION NUMBER: 60/090441  
2 PRIOR FILING DATE: 1998-06-24  
2 PRIOR APPLICATION NUMBER: 60/090435  
2 PRIOR FILING DATE: 1998-06-24  
2 PRIOR APPLICATION NUMBER: 60/090444  
2 PRIOR FILING DATE: 1998-06-24  
2 PRIOR APPLICATION NUMBER: 60/090445  
2 PRIOR FILING DATE: 1998-06-24  
2 PRIOR APPLICATION NUMBER: 60/090472  
2 PRIOR FILING DATE: 1998-06-24  
2 PRIOR APPLICATION NUMBER: 60/090535  
2 PRIOR FILING DATE: 1998-06-24  
2 PRIOR APPLICATION NUMBER: 60/090540  
2 PRIOR FILING DATE: 1998-06-24  
2 PRIOR APPLICATION NUMBER: 60/090542  
2 PRIOR FILING DATE: 1998-06-24  
2 PRIOR APPLICATION NUMBER: 60/090557  
2 PRIOR FILING DATE: 1998-06-24  
2 PRIOR APPLICATION NUMBER: 60/090676  
2 PRIOR FILING DATE: 1998-06-25  
2 PRIOR APPLICATION NUMBER: 60/090678  
2 PRIOR FILING DATE: 1998-06-25  
2 PRIOR APPLICATION NUMBER: 60/090690  
2 PRIOR FILING DATE: 1998-06-25  
2 PRIOR APPLICATION NUMBER: 60/090694  
2 PRIOR FILING DATE: 1998-06-25  
2 PRIOR APPLICATION NUMBER: 60/090695  
2 PRIOR FILING DATE: 1998-06-25  
2 PRIOR APPLICATION NUMBER: 60/090696  
2 PRIOR FILING DATE: 1998-06-25  
2 PRIOR APPLICATION NUMBER: 60/090862  
2 PRIOR FILING DATE: 1998-06-26  
2 PRIOR APPLICATION NUMBER: 60/090863  
2 PRIOR FILING DATE: 1998-06-26  
2 PRIOR APPLICATION NUMBER: 60/091360  
2 PRIOR FILING DATE: 1998-07-01  
2 PRIOR APPLICATION NUMBER: 60/091478  
2 PRIOR FILING DATE: 1998-07-02  
2 PRIOR APPLICATION NUMBER: 60/091544  
2 PRIOR FILING DATE: 1998-07-01  
2 PRIOR APPLICATION NUMBER: 60/091519  
2 PRIOR FILING DATE: 1998-07-02  
2 PRIOR APPLICATION NUMBER: 60/091626  
2 PRIOR FILING DATE: 1998-07-02  
2 PRIOR APPLICATION NUMBER: 60/091633  
2 PRIOR FILING DATE: 1998-07-02  
2 PRIOR APPLICATION NUMBER: 60/091978  
2 PRIOR FILING DATE: 1998-07-07  
2 PRIOR APPLICATION NUMBER: 60/091982  
2 PRIOR FILING DATE: 1998-07-07  
2 PRIOR APPLICATION NUMBER: 60/092182  
2 PRIOR FILING DATE: 1998-07-09

Query Match 63.88; Score 13.4; DB 9; Length 21;  
Best Local Similarity 93.38; Pred. No. 2.4e+04;  
Matches 14; Conservative 0; Mismatches 1; Gaps 0;

QY 2 ACCAATGGGAGGCG 16  
DB 3 ACCAATGGGAGGCG 17

RESULT 16

US-09-997-428-428  
Sequence 428, Application US/0997428  
Publication No. US2003027142A1  
GENERAL INFORMATION:  
APPLICANT: Ashkenazi, Avi J.  
APPLICANT: Baker, Kevin P.  
APPLICANT: Batstein, David  
APPLICANT: Besenoyers, Luc  
APPLICANT: Eaton, Dan L.  
APPLICANT: Ferrara, Napoleone  
APPLICANT: Ford, Sherman  
APPLICANT: Gerber, Hanspeter  
APPLICANT: Gottfries, Mary E.  
APPLICANT: Goddard, Audrey  
APPLICANT: Godowski, Paul J.  
APPLICANT: Grimaldi, J. Christopher  
APPLICANT: Gursoy, Austin L.  
APPLICANT: Klijavin, Ivar J.  
APPLICANT: Napier, Mary A.  
APPLICANT: Pan, James  
APPLICANT: Paoni, Nicholas F.  
APPLICANT: Roy, Margaret Ann  
APPLICANT: Stewart, Timothy A.  
APPLICANT: Tamas, Daniel  
APPLICANT: Katanabe, Colin K.  
APPLICANT: Williams, S. Mickey  
APPLICANT: Wood, William I.  
APPLICANT: Zhang, Zemin  
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleo-  
TIDE REFERENCE: P27301C44  
FILE REFERENCE: 127301C44  
CURRENT APPLICATION NUMBER: US/09/997,428  
CURRENT FILING DATE: 2001-11-15  
PRIOR APPLICATION NUMBER: 60/049787  
PRIOR FILING DATE: 1997-06-16  
PRIOR APPLICATION NUMBER: 60/062250  
PRIOR FILING DATE: 1997-10-17  
PRIOR APPLICATION NUMBER: 60/065186  
PRIOR FILING DATE: 1997-11-12  
PRIOR APPLICATION NUMBER: 60/065411  
PRIOR FILING DATE: 1997-11-14  
PRIOR APPLICATION NUMBER: 60/066770  
PRIOR FILING DATE: 1997-11-24  
PRIOR APPLICATION NUMBER: 60/075945  
PRIOR FILING DATE: 1998-02-25  
PRIOR APPLICATION NUMBER: 60/078910  
PRIOR FILING DATE: 1998-03-20  
PRIOR APPLICATION NUMBER: 60/084422  
PRIOR FILING DATE: 1998-04-28  
PRIOR APPLICATION NUMBER: 60/084600  
PRIOR FILING DATE: 1998-05-07  
PRIOR APPLICATION NUMBER: 60/087106  
PRIOR FILING DATE: 1998-05-28  
PRIOR APPLICATION NUMBER: 60/087607  
PRIOR FILING DATE: 1998-06-02  
PRIOR APPLICATION NUMBER: 60/087609  
PRIOR FILING DATE: 1998-06-02  
PRIOR APPLICATION NUMBER: 60/087759  
PRIOR FILING DATE: 1998-06-02  
PRIOR APPLICATION NUMBER: 60/087827  
PRIOR FILING DATE: 1998-06-04  
PRIOR APPLICATION NUMBER: 60/088021

2	PRIOR FILING DATE: 1998-06-04	2	PRIOR APPLICATION NUMBER: 60/088025	2	PRIOR FILING DATE: 1998-06-19	2	PRIOR APPLICATION NUMBER: 60/090495
3	PRIOR FILING DATE: 1998-06-04	3	PRIOR APPLICATION NUMBER: 60/088026	3	PRIOR FILING DATE: 1998-06-22	3	PRIOR APPLICATION NUMBER: 60/090496
4	PRIOR FILING DATE: 1998-06-04	4	PRIOR APPLICATION NUMBER: 60/088028	4	PRIOR FILING DATE: 1998-06-22	4	PRIOR APPLICATION NUMBER: 60/090497
5	PRIOR FILING DATE: 1998-06-04	5	PRIOR APPLICATION NUMBER: 60/088029	5	PRIOR FILING DATE: 1998-06-22	5	PRIOR APPLICATION NUMBER: 60/090498
6	PRIOR FILING DATE: 1998-06-04	6	PRIOR APPLICATION NUMBER: 60/088030	6	PRIOR FILING DATE: 1998-06-23	6	PRIOR APPLICATION NUMBER: 60/090499
7	PRIOR FILING DATE: 1998-06-04	7	PRIOR APPLICATION NUMBER: 60/088033	7	PRIOR FILING DATE: 1998-06-23	7	PRIOR APPLICATION NUMBER: 60/090500
8	PRIOR FILING DATE: 1998-06-04	8	PRIOR APPLICATION NUMBER: 60/088036	8	PRIOR FILING DATE: 1998-06-24	8	PRIOR APPLICATION NUMBER: 60/090501
9	PRIOR FILING DATE: 1998-06-04	9	PRIOR APPLICATION NUMBER: 60/088167	9	PRIOR FILING DATE: 1998-06-24	9	PRIOR APPLICATION NUMBER: 60/090502
10	PRIOR FILING DATE: 1998-06-05	10	PRIOR APPLICATION NUMBER: 60/088202	10	PRIOR FILING DATE: 1998-06-24	10	PRIOR APPLICATION NUMBER: 60/090503
11	PRIOR FILING DATE: 1998-06-05	11	PRIOR APPLICATION NUMBER: 60/088212	11	PRIOR FILING DATE: 1998-06-24	11	PRIOR APPLICATION NUMBER: 60/090504
12	PRIOR FILING DATE: 1998-06-05	12	PRIOR APPLICATION NUMBER: 60/088217	12	PRIOR FILING DATE: 1998-06-24	12	PRIOR APPLICATION NUMBER: 60/090505
13	PRIOR FILING DATE: 1998-06-05	13	PRIOR APPLICATION NUMBER: 60/088655	13	PRIOR FILING DATE: 1998-06-24	13	PRIOR APPLICATION NUMBER: 60/090506
14	PRIOR FILING DATE: 1998-06-09	14	PRIOR APPLICATION NUMBER: 60/088744	14	PRIOR FILING DATE: 1998-06-24	14	PRIOR APPLICATION NUMBER: 60/090507
15	PRIOR FILING DATE: 1998-06-10	15	PRIOR APPLICATION NUMBER: 60/088748	15	PRIOR FILING DATE: 1998-06-24	15	PRIOR APPLICATION NUMBER: 60/090508
16	PRIOR FILING DATE: 1998-06-10	16	PRIOR APPLICATION NUMBER: 60/088742	16	PRIOR FILING DATE: 1998-06-24	16	PRIOR APPLICATION NUMBER: 60/090509
17	PRIOR FILING DATE: 1998-06-10	17	PRIOR APPLICATION NUMBER: 60/088810	17	PRIOR FILING DATE: 1998-06-24	17	PRIOR APPLICATION NUMBER: 60/090510
18	PRIOR FILING DATE: 1998-06-10	18	PRIOR APPLICATION NUMBER: 60/088824	18	PRIOR FILING DATE: 1998-06-25	18	PRIOR APPLICATION NUMBER: 60/090511
19	PRIOR FILING DATE: 1998-06-10	19	PRIOR APPLICATION NUMBER: 60/088826	19	PRIOR FILING DATE: 1998-06-25	19	PRIOR APPLICATION NUMBER: 60/090512
20	PRIOR FILING DATE: 1998-06-10	20	PRIOR APPLICATION NUMBER: 60/088858	20	PRIOR FILING DATE: 1998-06-25	20	PRIOR APPLICATION NUMBER: 60/090513
21	PRIOR FILING DATE: 1998-06-11	21	PRIOR APPLICATION NUMBER: 60/088861	21	PRIOR FILING DATE: 1998-06-25	21	PRIOR APPLICATION NUMBER: 60/090514
22	PRIOR FILING DATE: 1998-06-11	22	PRIOR APPLICATION NUMBER: 60/088876	22	PRIOR FILING DATE: 1998-06-25	22	PRIOR APPLICATION NUMBER: 60/090515
23	PRIOR FILING DATE: 1998-06-11	23	PRIOR APPLICATION NUMBER: 60/089105	23	PRIOR FILING DATE: 1998-06-25	23	PRIOR APPLICATION NUMBER: 60/090516
24	PRIOR FILING DATE: 1998-06-12	24	PRIOR APPLICATION NUMBER: 60/089440	24	PRIOR FILING DATE: 1998-06-26	24	PRIOR APPLICATION NUMBER: 60/090517
25	PRIOR FILING DATE: 1998-06-16	25	PRIOR APPLICATION NUMBER: 60/089512	25	PRIOR FILING DATE: 1998-06-26	25	PRIOR APPLICATION NUMBER: 60/090518
26	PRIOR FILING DATE: 1998-06-16	26	PRIOR APPLICATION NUMBER: 60/089514	26	PRIOR FILING DATE: 1998-07-01	26	PRIOR APPLICATION NUMBER: 60/090519
27	PRIOR FILING DATE: 1998-06-16	27	PRIOR APPLICATION NUMBER: 60/089542	27	PRIOR FILING DATE: 1998-07-02	27	PRIOR APPLICATION NUMBER: 60/090520
28	PRIOR FILING DATE: 1998-06-17	28	PRIOR APPLICATION NUMBER: 60/089548	28	PRIOR FILING DATE: 1998-07-03	28	PRIOR APPLICATION NUMBER: 60/090521



Db 4 AACAAAGGCAAGTTCG 17

# RESULT 17

Sequence 428, Application US/09997666  
 Publication No. US20040027163A1  
 GENERAL INFORMATION:  
 APPLICANT: Ashkenazi, Avi J.  
 APPLICANT: Baker, Kevin P.  
 APPLICANT: Botstein, David  
 APPLICANT: Besnoyers, Luc  
 APPLICANT: Eaton, Dan L.  
 APPLICANT: Ferrara, Napoleone  
 APPLICANT: Fong, Sherman  
 APPLICANT: Gerber, Hanspeter  
 APPLICANT: Gottlisen, Mary E.  
 APPLICANT: Goddard, Audrey  
 APPLICANT: Godowski, Paul J.  
 APPLICANT: Grimaldi, J. Christopher  
 APPLICANT: Gurney, Austin L.  
 APPLICANT: Kujavinski, J.  
 APPLICANT: Napier, Mary A.  
 APPLICANT: Pan, James  
 APPLICANT: Paoni, Nicholas F.  
 APPLICANT: Roy, Margaret Ann  
 APPLICANT: Stewart, Timothy A.  
 APPLICANT: Tumas, Daniel  
 APPLICANT: Watanabe, Colin K.  
 APPLICANT: Williams, P. Mickey  
 APPLICANT: Wood, William J.  
 APPLICANT: Zhang, Zemin  
 TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic  
 FILE REFERENCE: P2730P1C42  
 CURRENT APPLICATION NUMBER: US/09/997,666  
 CURRENT FILING DATE: 2001-11-15  
 PRIOR APPLICATION NUMBER: 60/049787  
 PRIOR FILING DATE: 1997-06-16  
 PRIOR APPLICATION NUMBER: 60/062250  
 PRIOR FILING DATE: 1997-10-17  
 PRIOR APPLICATION NUMBER: 60/065186  
 PRIOR FILING DATE: 1997-11-12  
 PRIOR APPLICATION NUMBER: 60/065311  
 PRIOR FILING DATE: 1997-11-13  
 PRIOR APPLICATION NUMBER: 60/066770  
 PRIOR FILING DATE: 1997-11-24  
 PRIOR APPLICATION NUMBER: 60/075945  
 PRIOR FILING DATE: 1998-02-25  
 PRIOR APPLICATION NUMBER: 60/078910  
 PRIOR FILING DATE: 1998-03-20  
 PRIOR APPLICATION NUMBER: 60/083322  
 PRIOR FILING DATE: 1998-04-28  
 PRIOR APPLICATION NUMBER: 60/084600  
 PRIOR FILING DATE: 1998-05-07  
 PRIOR APPLICATION NUMBER: 60/087106  
 PRIOR FILING DATE: 1998-05-28  
 PRIOR APPLICATION NUMBER: 60/087607  
 PRIOR FILING DATE: 1998-06-02  
 PRIOR APPLICATION NUMBER: 60/087609  
 PRIOR FILING DATE: 1998-06-02  
 PRIOR APPLICATION NUMBER: 60/087759  
 PRIOR FILING DATE: 1998-06-02  
 PRIOR APPLICATION NUMBER: 60/087827  
 PRIOR FILING DATE: 1998-06-03  
 PRIOR APPLICATION NUMBER: 60/088021  
 PRIOR FILING DATE: 1998-06-04  
 PRIOR APPLICATION NUMBER: 60/088025  
 PRIOR FILING DATE: 1998-06-04  
 PRIOR APPLICATION NUMBER: 60/088026  
 PRIOR FILING DATE: 1998-06-04  
 PRIOR APPLICATION NUMBER: 60/088028  
 PRIOR FILING DATE: 1998-06-04

PRIOR APPLICATION NUMBER: 60/088029  
 PRIOR FILING DATE: 1998-06-04  
 PRIOR APPLICATION NUMBER: 60/088030  
 PRIOR FILING DATE: 1998-06-04  
 PRIOR APPLICATION NUMBER: 60/088033  
 PRIOR FILING DATE: 1998-06-04  
 PRIOR APPLICATION NUMBER: 60/088326  
 PRIOR FILING DATE: 1998-06-04  
 PRIOR APPLICATION NUMBER: 60/088167  
 PRIOR FILING DATE: 1998-06-05  
 PRIOR APPLICATION NUMBER: 60/088202  
 PRIOR FILING DATE: 1998-06-05  
 PRIOR APPLICATION NUMBER: 60/088212  
 PRIOR FILING DATE: 1998-06-05  
 PRIOR APPLICATION NUMBER: 60/088217  
 PRIOR FILING DATE: 1998-06-05  
 PRIOR APPLICATION NUMBER: 60/088655  
 PRIOR FILING DATE: 1998-06-09  
 PRIOR APPLICATION NUMBER: 60/088734  
 PRIOR FILING DATE: 1998-06-10  
 PRIOR APPLICATION NUMBER: 60/088748  
 PRIOR FILING DATE: 1998-06-10  
 PRIOR APPLICATION NUMBER: 60/088742  
 PRIOR FILING DATE: 1998-06-10  
 PRIOR APPLICATION NUMBER: 60/088810  
 PRIOR FILING DATE: 1998-06-10  
 PRIOR APPLICATION NUMBER: 60/088824  
 PRIOR FILING DATE: 1998-06-10  
 PRIOR APPLICATION NUMBER: 60/088826  
 PRIOR FILING DATE: 1998-06-10  
 PRIOR APPLICATION NUMBER: 60/088858  
 PRIOR FILING DATE: 1998-06-11  
 PRIOR APPLICATION NUMBER: 60/088861  
 PRIOR FILING DATE: 1998-06-11  
 PRIOR APPLICATION NUMBER: 60/088876  
 PRIOR FILING DATE: 1998-06-11  
 PRIOR APPLICATION NUMBER: 60/089105  
 PRIOR FILING DATE: 1998-06-12  
 PRIOR APPLICATION NUMBER: 60/089440  
 PRIOR FILING DATE: 1998-06-16  
 PRIOR APPLICATION NUMBER: 60/089512  
 PRIOR FILING DATE: 1998-06-16  
 PRIOR APPLICATION NUMBER: 60/089514  
 PRIOR FILING DATE: 1998-06-16  
 PRIOR APPLICATION NUMBER: 60/089532  
 PRIOR FILING DATE: 1998-06-17  
 PRIOR APPLICATION NUMBER: 60/089538  
 PRIOR FILING DATE: 1998-06-17  
 PRIOR APPLICATION NUMBER: 60/089598  
 PRIOR FILING DATE: 1998-06-17  
 PRIOR APPLICATION NUMBER: 60/089599  
 PRIOR FILING DATE: 1998-06-17  
 PRIOR APPLICATION NUMBER: 60/089600  
 PRIOR FILING DATE: 1998-06-17  
 PRIOR APPLICATION NUMBER: 60/089653  
 PRIOR FILING DATE: 1998-06-17  
 PRIOR APPLICATION NUMBER: 60/089801  
 PRIOR FILING DATE: 1998-06-18  
 PRIOR APPLICATION NUMBER: 60/089907  
 PRIOR FILING DATE: 1998-06-18  
 PRIOR APPLICATION NUMBER: 60/089908  
 PRIOR FILING DATE: 1998-06-18  
 PRIOR APPLICATION NUMBER: 60/089947  
 PRIOR FILING DATE: 1998-06-19  
 PRIOR APPLICATION NUMBER: 60/089948  
 PRIOR FILING DATE: 1998-06-19  
 PRIOR APPLICATION NUMBER: 60/089952  
 PRIOR FILING DATE: 1998-06-19  
 PRIOR APPLICATION NUMBER: 60/090246  
 PRIOR FILING DATE: 1998-06-22  
 PRIOR APPLICATION NUMBER: 60/090252  
 PRIOR FILING DATE: 1998-06-22  
 PRIOR APPLICATION NUMBER: 60/090254

2 PRIOR FILING DATE: 1998-06-22  
 2 PRIOR APPLICATION NUMBER: 60/090449  
 2 PRIOR FILING DATE: 1998-06-24  
 2 PRIOR APPLICATION NUMBER: 60/090455  
 2 PRIOR FILING DATE: 1998-06-24  
 2 PRIOR APPLICATION NUMBER: 60/090429  
 2 PRIOR FILING DATE: 1998-06-24  
 2 PRIOR APPLICATION NUMBER: 60/090441  
 2 PRIOR FILING DATE: 1998-06-24  
 2 PRIOR APPLICATION NUMBER: 60/090445  
 2 PRIOR FILING DATE: 1998-06-24  
 2 PRIOR APPLICATION NUMBER: 60/090472  
 2 PRIOR FILING DATE: 1998-06-24  
 2 PRIOR APPLICATION NUMBER: 60/090455  
 2 PRIOR FILING DATE: 1998-06-24  
 2 PRIOR APPLICATION NUMBER: 60/090440  
 2 PRIOR FILING DATE: 1998-06-24  
 2 PRIOR APPLICATION NUMBER: 60/090445  
 2 PRIOR FILING DATE: 1998-06-24  
 2 PRIOR APPLICATION NUMBER: 60/090442  
 2 PRIOR FILING DATE: 1998-06-24  
 2 PRIOR APPLICATION NUMBER: 60/090557  
 2 PRIOR FILING DATE: 1998-06-24  
 2 PRIOR APPLICATION NUMBER: 60/090676  
 2 PRIOR FILING DATE: 1998-06-25  
 2 PRIOR APPLICATION NUMBER: 60/090678  
 2 PRIOR FILING DATE: 1998-06-25  
 2 PRIOR APPLICATION NUMBER: 60/090680  
 2 PRIOR FILING DATE: 1998-06-25  
 2 PRIOR APPLICATION NUMBER: 60/090694  
 2 PRIOR FILING DATE: 1998-06-25  
 2 PRIOR APPLICATION NUMBER: 60/090695  
 2 PRIOR FILING DATE: 1998-06-25  
 2 PRIOR APPLICATION NUMBER: 60/090696  
 2 PRIOR FILING DATE: 1998-06-25  
 2 PRIOR APPLICATION NUMBER: 60/090862  
 2 PRIOR FILING DATE: 1998-06-26  
 2 PRIOR APPLICATION NUMBER: 60/090863  
 2 PRIOR FILING DATE: 1998-06-26  
 2 PRIOR APPLICATION NUMBER: 60/091500  
 2 PRIOR FILING DATE: 1998-07-01  
 2 PRIOR APPLICATION NUMBER: 60/091478  
 2 PRIOR FILING DATE: 1998-07-02  
 2 PRIOR APPLICATION NUMBER: 60/091544  
 2 PRIOR FILING DATE: 1998-07-01  
 2 PRIOR APPLICATION NUMBER: 60/091519  
 2 PRIOR FILING DATE: 1998-07-02  
 2 PRIOR APPLICATION NUMBER: 60/091626  
 2 PRIOR FILING DATE: 1998-07-02  
 2 PRIOR APPLICATION NUMBER: 60/091633  
 2 PRIOR FILING DATE: 1998-07-02  
 2 PRIOR APPLICATION NUMBER: 60/091978  
 2 PRIOR FILING DATE: 1998-07-07  
 2 PRIOR APPLICATION NUMBER: 60/091982  
 2 PRIOR FILING DATE: 1998-07-07  
 2 PRIOR APPLICATION NUMBER: 60/092182  
 2 PRIOR FILING DATE: 1998-07-09

Query Match 64.8%; Score 13.4; DB 9; Length 21;

Best Local Similarity 94.4%; Prod. No. 2, Acc. 0;

Matches 14; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 2 ACCAAGGAGGAC 16

DB 3 ACCAAGGAGGAC 17

RESULT 18

US 09, 990 711 428

Sequence 428, Application US/09/990711

Publication No. US2003004202A1

2 GENERAL INFORMATION:  
 2 APPLICANT: Ashkenazi, Avi J.  
 2 APPLICANT: Baker, Kevin P.  
 2 APPLICANT: Bedstone, David  
 2 APPLICANT: Beshtoyev, Ilia  
 2 APPLICANT: Eaton, Ian L.  
 2 APPLICANT: Ferrara, Napoleone  
 2 APPLICANT: Ford, Sherman  
 2 APPLICANT: Gerber, Hanspeter  
 2 APPLICANT: Gottlieb, Mary E.  
 2 APPLICANT: Hubbard, Audrey  
 2 APPLICANT: Godowski, Paul J.  
 2 APPLICANT: Grimaldi, Christopher  
 2 APPLICANT: Guiney, Austin L.  
 2 APPLICANT: Kjaevig, Izar J.  
 2 APPLICANT: Napier, Mary A.  
 2 APPLICANT: Pao, James  
 2 APPLICANT: Pao, Nicholas F.  
 2 APPLICANT: Roy, Margaret Ann  
 2 APPLICANT: Stewart, Timothy A.  
 2 APPLICANT: Tomas, Daniel  
 2 APPLICANT: Watanabe, Colin K.  
 2 APPLICANT: Williams, D. Mickey  
 2 APPLICANT: Wood, William L.  
 2 APPLICANT: Zhanel, Zeph  
 2 TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic  
 2 FILE REFERENCE: P27801C2  
 2 CURRENT APPLICATION NUMBER: US/09/990,711  
 2 CURRENT FILING DATE: 2001-11-14  
 2 PRIOR APPLICATION NUMBER: 60/049787  
 2 PRIOR FILING DATE: 1997-06-16  
 2 PRIOR APPLICATION NUMBER: 60/062250  
 2 PRIOR FILING DATE: 1997-10-17  
 2 PRIOR APPLICATION NUMBER: 60/065186  
 2 PRIOR FILING DATE: 1997-11-12  
 2 PRIOR APPLICATION NUMBER: 60/065411  
 2 PRIOR FILING DATE: 1997-11-14  
 2 PRIOR APPLICATION NUMBER: 60/066770  
 2 PRIOR FILING DATE: 1997-11-24  
 2 PRIOR APPLICATION NUMBER: 60/075945  
 2 PRIOR FILING DATE: 1998-02-25  
 2 PRIOR APPLICATION NUMBER: 60/078910  
 2 PRIOR FILING DATE: 1998-03-20  
 2 PRIOR APPLICATION NUMBER: 60/084322  
 2 PRIOR FILING DATE: 1998-04-28  
 2 PRIOR APPLICATION NUMBER: 60/084600  
 2 PRIOR FILING DATE: 1998-05-07  
 2 PRIOR APPLICATION NUMBER: 60/087106  
 2 PRIOR FILING DATE: 1998-05-28  
 2 PRIOR APPLICATION NUMBER: 60/087607  
 2 PRIOR FILING DATE: 1998-06-02  
 2 PRIOR APPLICATION NUMBER: 60/087609  
 2 PRIOR FILING DATE: 1998-06-02  
 2 PRIOR APPLICATION NUMBER: 60/087759  
 2 PRIOR FILING DATE: 1998-06-02  
 2 PRIOR APPLICATION NUMBER: 60/087827  
 2 PRIOR FILING DATE: 1998-06-04  
 2 PRIOR APPLICATION NUMBER: 60/088021  
 2 PRIOR FILING DATE: 1998-06-04  
 2 PRIOR APPLICATION NUMBER: 60/088025  
 2 PRIOR FILING DATE: 1998-06-04  
 2 PRIOR APPLICATION NUMBER: 60/088026  
 2 PRIOR FILING DATE: 1998-06-04  
 2 PRIOR APPLICATION NUMBER: 60/088028  
 2 PRIOR FILING DATE: 1998-06-04  
 2 PRIOR APPLICATION NUMBER: 60/088029  
 2 PRIOR FILING DATE: 1998-06-04  
 2 PRIOR APPLICATION NUMBER: 60/088030  
 2 PRIOR FILING DATE: 1998-06-04  
 2 PRIOR APPLICATION NUMBER: 60/088033  
 2 PRIOR FILING DATE: 1998-06-04  
 2 PRIOR APPLICATION NUMBER: 60/088426



1 APPLICANT: Pond, Sherman  
 2 APPLICANT: Gerber, Hanspeter  
 3 APPLICANT: Geritson, Mary E.  
 4 APPLICANT: Goddard, Audrey  
 5 APPLICANT: Godowski, Paul J.  
 6 APPLICANT: Grimaldi, J. Christopher  
 7 APPLICANT: Gurney, Aust In L.  
 8 APPLICANT: Klavin, Ivar J.  
 9 APPLICANT: Napier, Mary A.  
 10 APPLICANT: Pate, James  
 11 APPLICANT: Paoletti, Nicholas F.  
 12 APPLICANT: Roy, Margaret Ann  
 13 APPLICANT: Stewart, Timothy A.  
 14 APPLICANT: Thomas, Daniel  
 15 APPLICANT: Watanabe, Colin K.  
 16 APPLICANT: Williams, P. Mickey  
 17 APPLICANT: Wood, William L.  
 18 APPLICANT: Zhang, Zemin  
 19 TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic  
 20 FILE REFERENCE: P274011760  
 21 CURRENT APPLICATION NUMBER: US/09/989,726  
 22 PRIOR FILING DATE: 2001-11-19  
 23 PRIOR APPLICATION NUMBER: 60/049787  
 24 PRIOR FILING DATE: 1997-06-16  
 25 PRIOR APPLICATION NUMBER: 60/062250  
 26 PRIOR FILING DATE: 1997-10-17  
 27 PRIOR APPLICATION NUMBER: 60/065186  
 28 PRIOR FILING DATE: 1997-11-12  
 29 PRIOR APPLICATION NUMBER: 60/065311  
 30 PRIOR FILING DATE: 1997-11-13  
 31 PRIOR APPLICATION NUMBER: 60/066770  
 32 PRIOR FILING DATE: 1997-11-24  
 33 PRIOR APPLICATION NUMBER: 60/075945  
 34 PRIOR FILING DATE: 1998-02-25  
 35 PRIOR APPLICATION NUMBER: 60/078910  
 36 PRIOR FILING DATE: 1998-04-20  
 37 PRIOR APPLICATION NUMBER: 60/084322  
 38 PRIOR FILING DATE: 1998-04-28  
 39 PRIOR APPLICATION NUMBER: 60/084600  
 40 PRIOR FILING DATE: 1998-05-07  
 41 PRIOR APPLICATION NUMBER: 60/087106  
 42 PRIOR FILING DATE: 1998-05-28  
 43 PRIOR APPLICATION NUMBER: 60/087607  
 44 PRIOR FILING DATE: 1998-06-02  
 45 PRIOR APPLICATION NUMBER: 60/087609  
 46 PRIOR FILING DATE: 1998-06-02  
 47 PRIOR APPLICATION NUMBER: 60/087759  
 48 PRIOR FILING DATE: 1998-06-02  
 49 PRIOR APPLICATION NUMBER: 60/087827  
 50 PRIOR FILING DATE: 1998-06-04  
 51 PRIOR APPLICATION NUMBER: 60/088021  
 52 PRIOR FILING DATE: 1998-06-04  
 53 PRIOR APPLICATION NUMBER: 60/088025  
 54 PRIOR FILING DATE: 1998-06-04  
 55 PRIOR APPLICATION NUMBER: 60/088026  
 56 PRIOR FILING DATE: 1998-06-04  
 57 PRIOR APPLICATION NUMBER: 60/088028  
 58 PRIOR FILING DATE: 1998-06-04  
 59 PRIOR APPLICATION NUMBER: 60/088029  
 60 PRIOR FILING DATE: 1998-06-04  
 61 PRIOR APPLICATION NUMBER: 60/088030  
 62 PRIOR FILING DATE: 1998-06-04  
 63 PRIOR APPLICATION NUMBER: 60/088033  
 64 PRIOR FILING DATE: 1998-06-04  
 65 PRIOR APPLICATION NUMBER: 60/088326  
 66 PRIOR FILING DATE: 1998-06-04  
 67 PRIOR APPLICATION NUMBER: 60/088167  
 68 PRIOR FILING DATE: 1998-06-05  
 69 PRIOR APPLICATION NUMBER: 60/088202  
 70 PRIOR FILING DATE: 1998-06-05  
 71 PRIOR APPLICATION NUMBER: 60/088212  
 72 PRIOR FILING DATE: 1998-06-05

1 PRIOR APPLICATION NUMBER: 60/088217  
 2 PRIOR FILING DATE: 1998-06-05  
 3 PRIOR APPLICATION NUMBER: 60/088655  
 4 PRIOR FILING DATE: 1998-06-09  
 5 PRIOR APPLICATION NUMBER: 60/088744  
 6 PRIOR FILING DATE: 1998-06-10  
 7 PRIOR APPLICATION NUMBER: 60/088738  
 8 PRIOR FILING DATE: 1998-06-10  
 9 PRIOR APPLICATION NUMBER: 60/088742  
 10 PRIOR FILING DATE: 1998-06-10  
 11 PRIOR APPLICATION NUMBER: 60/088810  
 12 PRIOR FILING DATE: 1998-06-10  
 13 PRIOR APPLICATION NUMBER: 60/088824  
 14 PRIOR FILING DATE: 1998-06-10  
 15 PRIOR APPLICATION NUMBER: 60/088826  
 16 PRIOR FILING DATE: 1998-06-10  
 17 PRIOR APPLICATION NUMBER: 60/088858  
 18 PRIOR FILING DATE: 1998-06-11  
 19 PRIOR APPLICATION NUMBER: 60/088861  
 20 PRIOR FILING DATE: 1998-06-11  
 21 PRIOR APPLICATION NUMBER: 60/088876  
 22 PRIOR FILING DATE: 1998-06-11  
 23 PRIOR APPLICATION NUMBER: 60/089105  
 24 PRIOR FILING DATE: 1998-06-12  
 25 PRIOR APPLICATION NUMBER: 60/089440  
 26 PRIOR FILING DATE: 1998-06-16  
 27 PRIOR APPLICATION NUMBER: 60/089512  
 28 PRIOR FILING DATE: 1998-06-16  
 29 PRIOR APPLICATION NUMBER: 60/089514  
 30 PRIOR FILING DATE: 1998-06-16  
 31 PRIOR APPLICATION NUMBER: 60/089532  
 32 PRIOR FILING DATE: 1998-06-17  
 33 PRIOR APPLICATION NUMBER: 60/089538  
 34 PRIOR FILING DATE: 1998-06-17  
 35 PRIOR APPLICATION NUMBER: 60/089598  
 36 PRIOR FILING DATE: 1998-06-17  
 37 PRIOR APPLICATION NUMBER: 60/089599  
 38 PRIOR FILING DATE: 1998-06-17  
 39 PRIOR APPLICATION NUMBER: 60/089600  
 40 PRIOR FILING DATE: 1998-06-17  
 41 PRIOR APPLICATION NUMBER: 60/089653  
 42 PRIOR FILING DATE: 1998-06-17  
 43 PRIOR APPLICATION NUMBER: 60/089801  
 44 PRIOR FILING DATE: 1998-06-18  
 45 PRIOR APPLICATION NUMBER: 60/089907  
 46 PRIOR FILING DATE: 1998-06-18  
 47 PRIOR APPLICATION NUMBER: 60/089908  
 48 PRIOR FILING DATE: 1998-06-18  
 49 PRIOR APPLICATION NUMBER: 60/089947  
 50 PRIOR FILING DATE: 1998-06-19  
 51 PRIOR APPLICATION NUMBER: 60/089948  
 52 PRIOR FILING DATE: 1998-06-19  
 53 PRIOR APPLICATION NUMBER: 60/089952  
 54 PRIOR FILING DATE: 1998-06-19  
 55 PRIOR APPLICATION NUMBER: 60/090246  
 56 PRIOR FILING DATE: 1998-06-22  
 57 PRIOR APPLICATION NUMBER: 60/090252  
 58 PRIOR FILING DATE: 1998-06-22  
 59 PRIOR APPLICATION NUMBER: 60/090254  
 60 PRIOR FILING DATE: 1998-06-22  
 61 PRIOR APPLICATION NUMBER: 60/090349  
 62 PRIOR FILING DATE: 1998-06-23  
 63 PRIOR APPLICATION NUMBER: 60/090355  
 64 PRIOR FILING DATE: 1998-06-23  
 65 PRIOR APPLICATION NUMBER: 60/090329  
 66 PRIOR FILING DATE: 1998-06-24  
 67 PRIOR APPLICATION NUMBER: 60/090331  
 68 PRIOR FILING DATE: 1998-06-24  
 69 PRIOR APPLICATION NUMBER: 60/090335  
 70 PRIOR FILING DATE: 1998-06-24  
 71 PRIOR APPLICATION NUMBER: 60/090344  
 72 PRIOR FILING DATE: 1998-06-24  
 73 PRIOR APPLICATION NUMBER: 60/090345

1 PRIOR FILING DATE: 1998-06-24  
 2 PRIOR APPLICATION NUMBER: 60/090472  
 3 PRIOR FILING DATE: 1998-06-24  
 4 PRIOR APPLICATION NUMBER: 60/090535  
 5 PRIOR FILING DATE: 1998-06-24  
 6 PRIOR APPLICATION NUMBER: 60/090540  
 7 PRIOR FILING DATE: 1998-06-24  
 8 PRIOR APPLICATION NUMBER: 60/090542  
 9 PRIOR FILING DATE: 1998-06-24  
 10 PRIOR APPLICATION NUMBER: 60/090557  
 11 PRIOR FILING DATE: 1998-06-24  
 12 PRIOR APPLICATION NUMBER: 60/090676  
 13 PRIOR FILING DATE: 1998-06-25  
 14 PRIOR APPLICATION NUMBER: 60/090678  
 15 PRIOR FILING DATE: 1998-06-25  
 16 PRIOR APPLICATION NUMBER: 60/090690  
 17 PRIOR FILING DATE: 1998-06-25  
 18 PRIOR APPLICATION NUMBER: 60/090694  
 19 PRIOR FILING DATE: 1998-06-25  
 20 PRIOR APPLICATION NUMBER: 60/090695  
 21 PRIOR FILING DATE: 1998-06-25  
 22 PRIOR APPLICATION NUMBER: 60/090696  
 23 PRIOR FILING DATE: 1998-06-25  
 24 PRIOR APPLICATION NUMBER: 60/090862  
 25 PRIOR FILING DATE: 1998-06-26  
 26 PRIOR APPLICATION NUMBER: 60/090863  
 27 PRIOR FILING DATE: 1998-06-26  
 28 PRIOR APPLICATION NUMBER: 60/091360  
 29 PRIOR FILING DATE: 1998-07-01  
 30 PRIOR APPLICATION NUMBER: 60/091478  
 31 PRIOR FILING DATE: 1998-07-02  
 32 PRIOR APPLICATION NUMBER: 60/091544  
 33 PRIOR FILING DATE: 1998-07-01  
 34 PRIOR APPLICATION NUMBER: 60/091519  
 35 PRIOR FILING DATE: 1998-07-02  
 36 PRIOR APPLICATION NUMBER: 60/091626  
 37 PRIOR FILING DATE: 1998-07-02  
 38 PRIOR APPLICATION NUMBER: 60/091633  
 39 PRIOR FILING DATE: 1998-07-02  
 40 PRIOR APPLICATION NUMBER: 60/091978  
 41 PRIOR FILING DATE: 1998-07-07  
 42 PRIOR APPLICATION NUMBER: 60/091982  
 43 PRIOR FILING DATE: 1998-07-07  
 44 PRIOR APPLICATION NUMBER: 60/092182  
 45 PRIOR FILING DATE: 1998-07-09

Query Match 63.8%; Score 14.4; PR 9; Length 21;  
 Best Local Similarity 93.8%; Pred. No. 2, 4, 0, 0, 0;

Matches 14; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 2 ACAAAGGAGAGGAGG 16

DB 3 ACAAAGGAGAGG 17

# RESULT 20

US-09-900-47-428

Sequence 428, Application US/09990437

Publication No. US2003004546A1

## GENERAL INFORMATION:

1 APPLICANT: Ashkenazi, Avi J.  
 2 APPLICANT: Baker, Kevin P.  
 3 APPLICANT: Bolstein, David  
 4 APPLICANT: Desnoyers, Luc  
 5 APPLICANT: Eaton, Dan L.  
 6 APPLICANT: Ferrara, Napoleone  
 7 APPLICANT: Fong, Sherman  
 8 APPLICANT: Geiber, Hanspeter  
 9 APPLICANT: Gerritsen, Mary E.  
 10 APPLICANT: Goddard, Audrey  
 11 APPLICANT: Godowski, Paul J.  
 12 APPLICANT: Grimaldi, J. Christopher  
 13 APPLICANT: Gurney, Austin L.

1 APPLICANT: Kijavits, Ivar J.  
 2 APPLICANT: Napier, Mary A.  
 3 APPLICANT: Pan, James  
 4 APPLICANT: Paoletti, Nicholas F.  
 5 APPLICANT: Roy, Margaret Ann  
 6 APPLICANT: Stewart, Timothy A.  
 7 APPLICANT: Tamas, Daniel  
 8 APPLICANT: Watanabe, Colin K.  
 9 APPLICANT: Williams, P. Mickey  
 10 APPLICANT: Wood, William L.  
 11 APPLICANT: Zhao, Zhen-B.  
 12 TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic  
 13 FILE OF INVENTION: Acids Encoding the Same  
 14 FILE REFERENCE: P2740P.C49  
 15 CURRENT APPLICATION NUMBER: US/09/990,437  
 16 CURRENT FILING DATE: 2001-11-16  
 17 PRIOR APPLICATION NUMBER: 60/049787  
 18 PRIOR FILING DATE: 1997-06-16  
 19 PRIOR APPLICATION NUMBER: 60/062250  
 20 PRIOR FILING DATE: 1997-10-17  
 21 PRIOR APPLICATION NUMBER: 60/065186  
 22 PRIOR FILING DATE: 1997-11-12  
 23 PRIOR APPLICATION NUMBER: 60/065411  
 24 PRIOR FILING DATE: 1997-11-13  
 25 PRIOR APPLICATION NUMBER: 60/066770  
 26 PRIOR FILING DATE: 1997-11-24  
 27 PRIOR APPLICATION NUMBER: 60/075945  
 28 PRIOR FILING DATE: 1998-02-25  
 29 PRIOR APPLICATION NUMBER: 60/078410  
 30 PRIOR FILING DATE: 1998-04-20  
 31 PRIOR APPLICATION NUMBER: 60/083322  
 32 PRIOR FILING DATE: 1998-04-28  
 33 PRIOR APPLICATION NUMBER: 60/084600  
 34 PRIOR FILING DATE: 1998-05-07  
 35 PRIOR APPLICATION NUMBER: 60/087106  
 36 PRIOR FILING DATE: 1998-05-28  
 37 PRIOR APPLICATION NUMBER: 60/087607  
 38 PRIOR FILING DATE: 1998-06-02  
 39 PRIOR APPLICATION NUMBER: 60/087609  
 40 PRIOR FILING DATE: 1998-06-02  
 41 PRIOR APPLICATION NUMBER: 60/087759  
 42 PRIOR FILING DATE: 1998-06-02  
 43 PRIOR APPLICATION NUMBER: 60/087827  
 44 PRIOR FILING DATE: 1998-06-03  
 45 PRIOR APPLICATION NUMBER: 60/088021  
 46 PRIOR FILING DATE: 1998-06-04  
 47 PRIOR APPLICATION NUMBER: 60/088025  
 48 PRIOR FILING DATE: 1998-06-04  
 49 PRIOR APPLICATION NUMBER: 60/088026  
 50 PRIOR FILING DATE: 1998-06-04  
 51 PRIOR APPLICATION NUMBER: 60/088028  
 52 PRIOR FILING DATE: 1998-06-04  
 53 PRIOR APPLICATION NUMBER: 60/088029  
 54 PRIOR FILING DATE: 1998-06-04  
 55 PRIOR APPLICATION NUMBER: 60/088040  
 56 PRIOR FILING DATE: 1998-06-04  
 57 PRIOR APPLICATION NUMBER: 60/088043  
 58 PRIOR FILING DATE: 1998-06-04  
 59 PRIOR APPLICATION NUMBER: 60/088326  
 60 PRIOR FILING DATE: 1998-06-04  
 61 PRIOR APPLICATION NUMBER: 60/088167  
 62 PRIOR FILING DATE: 1998-06-05  
 63 PRIOR APPLICATION NUMBER: 60/088202  
 64 PRIOR FILING DATE: 1998-06-05  
 65 PRIOR APPLICATION NUMBER: 60/088212  
 66 PRIOR FILING DATE: 1998-06-05  
 67 PRIOR APPLICATION NUMBER: 60/088217  
 68 PRIOR FILING DATE: 1998-06-05  
 69 PRIOR APPLICATION NUMBER: 60/088655  
 70 PRIOR FILING DATE: 1998-06-09  
 71 PRIOR APPLICATION NUMBER: 60/088744  
 72 PRIOR FILING DATE: 1998-06-10  
 73 PRIOR APPLICATION NUMBER: 60/088748

1 PRIOR FILING DATE: 1998-06-10  
 2 PRIOR APPLICATION NUMBER: 60/088742  
 3 PRIOR FILING DATE: 1998-06-10  
 4 PRIOR APPLICATION NUMBER: 60/088810  
 5 PRIOR FILING DATE: 1998-06-10  
 6 PRIOR APPLICATION NUMBER: 60/088824  
 7 PRIOR FILING DATE: 1998-06-10  
 8 PRIOR APPLICATION NUMBER: 60/088826  
 9 PRIOR FILING DATE: 1998-06-10  
 10 PRIOR APPLICATION NUMBER: 60/088858  
 11 PRIOR FILING DATE: 1998-06-11  
 12 PRIOR APPLICATION NUMBER: 60/088861  
 13 PRIOR FILING DATE: 1998-06-11  
 14 PRIOR APPLICATION NUMBER: 60/088876  
 15 PRIOR FILING DATE: 1998-06-11  
 16 PRIOR APPLICATION NUMBER: 60/089105  
 17 PRIOR FILING DATE: 1998-06-12  
 18 PRIOR APPLICATION NUMBER: 60/089440  
 19 PRIOR FILING DATE: 1998-06-16  
 20 PRIOR APPLICATION NUMBER: 60/089512  
 21 PRIOR FILING DATE: 1998-06-16  
 22 PRIOR APPLICATION NUMBER: 60/089514  
 23 PRIOR FILING DATE: 1998-06-16  
 24 PRIOR APPLICATION NUMBER: 60/089542  
 25 PRIOR FILING DATE: 1998-06-17  
 26 PRIOR APPLICATION NUMBER: 60/089548  
 27 PRIOR FILING DATE: 1998-06-17  
 28 PRIOR APPLICATION NUMBER: 60/089598  
 29 PRIOR FILING DATE: 1998-06-17  
 30 PRIOR APPLICATION NUMBER: 60/089599  
 31 PRIOR FILING DATE: 1998-06-17  
 32 PRIOR APPLICATION NUMBER: 60/089600  
 33 PRIOR FILING DATE: 1998-06-17  
 34 PRIOR APPLICATION NUMBER: 60/089653  
 35 PRIOR FILING DATE: 1998-06-17  
 36 PRIOR APPLICATION NUMBER: 60/089801  
 37 PRIOR FILING DATE: 1998-06-18  
 38 PRIOR APPLICATION NUMBER: 60/089907  
 39 PRIOR FILING DATE: 1998-06-18  
 40 PRIOR APPLICATION NUMBER: 60/089908  
 41 PRIOR FILING DATE: 1998-06-18  
 42 PRIOR APPLICATION NUMBER: 60/089947  
 43 PRIOR FILING DATE: 1998-06-19  
 44 PRIOR APPLICATION NUMBER: 60/089948  
 45 PRIOR FILING DATE: 1998-06-19  
 46 PRIOR APPLICATION NUMBER: 60/089952  
 47 PRIOR FILING DATE: 1998-06-19  
 48 PRIOR APPLICATION NUMBER: 60/090246  
 49 PRIOR FILING DATE: 1998-06-22  
 50 PRIOR APPLICATION NUMBER: 60/090252  
 51 PRIOR FILING DATE: 1998-06-22  
 52 PRIOR APPLICATION NUMBER: 60/090254  
 53 PRIOR FILING DATE: 1998-06-22  
 54 PRIOR APPLICATION NUMBER: 60/090349  
 55 PRIOR FILING DATE: 1998-06-24  
 56 PRIOR APPLICATION NUMBER: 60/090355  
 57 PRIOR FILING DATE: 1998-06-24  
 58 PRIOR APPLICATION NUMBER: 60/090429  
 59 PRIOR FILING DATE: 1998-06-24  
 60 PRIOR APPLICATION NUMBER: 60/090441  
 61 PRIOR FILING DATE: 1998-06-24  
 62 PRIOR APPLICATION NUMBER: 60/090445  
 63 PRIOR FILING DATE: 1998-06-24  
 64 PRIOR APPLICATION NUMBER: 60/090472  
 65 PRIOR FILING DATE: 1998-06-24  
 66 PRIOR APPLICATION NUMBER: 60/090444  
 67 PRIOR FILING DATE: 1998-06-24  
 68 PRIOR APPLICATION NUMBER: 60/090445  
 69 PRIOR FILING DATE: 1998-06-24  
 70 PRIOR APPLICATION NUMBER: 60/090472  
 71 PRIOR FILING DATE: 1998-06-24  
 72 PRIOR APPLICATION NUMBER: 60/090545  
 73 PRIOR FILING DATE: 1998-06-24  
 74 PRIOR APPLICATION NUMBER: 60/090540  
 75 PRIOR FILING DATE: 1998-06-24

1 PRIOR APPLICATION NUMBER: 60/090542  
 2 PRIOR FILING DATE: 1998-06-24  
 3 PRIOR APPLICATION NUMBER: 60/090557  
 4 PRIOR FILING DATE: 1998-06-24  
 5 PRIOR APPLICATION NUMBER: 60/090676  
 6 PRIOR FILING DATE: 1998-06-25  
 7 PRIOR APPLICATION NUMBER: 60/090678  
 8 PRIOR FILING DATE: 1998-06-25  
 9 PRIOR APPLICATION NUMBER: 60/090690  
 10 PRIOR FILING DATE: 1998-06-25  
 11 PRIOR APPLICATION NUMBER: 60/090694  
 12 PRIOR FILING DATE: 1998-06-25  
 13 PRIOR APPLICATION NUMBER: 60/090695  
 14 PRIOR FILING DATE: 1998-06-25  
 15 PRIOR APPLICATION NUMBER: 60/090696  
 16 PRIOR FILING DATE: 1998-06-25  
 17 PRIOR APPLICATION NUMBER: 60/090862  
 18 PRIOR FILING DATE: 1998-06-26  
 19 PRIOR APPLICATION NUMBER: 60/090863  
 20 PRIOR FILING DATE: 1998-06-26  
 21 PRIOR APPLICATION NUMBER: 60/091460  
 22 PRIOR FILING DATE: 1998-07-01  
 23 PRIOR APPLICATION NUMBER: 60/091478  
 24 PRIOR FILING DATE: 1998-07-02  
 25 PRIOR APPLICATION NUMBER: 60/091544  
 26 PRIOR FILING DATE: 1998-07-01  
 27 PRIOR APPLICATION NUMBER: 60/091519  
 28 PRIOR FILING DATE: 1998-07-02  
 29 PRIOR APPLICATION NUMBER: 60/091626  
 30 PRIOR FILING DATE: 1998-07-02  
 31 PRIOR APPLICATION NUMBER: 60/091633  
 32 PRIOR FILING DATE: 1998-07-02  
 33 PRIOR APPLICATION NUMBER: 60/091978  
 34 PRIOR FILING DATE: 1998-07-07  
 35 PRIOR APPLICATION NUMBER: 60/091982  
 36 PRIOR FILING DATE: 1998-07-07  
 37 PRIOR APPLICATION NUMBER: 60/092182  
 38 PRIOR FILING DATE: 1998-07-09

Query Match: 68.88%; Score: 13.4; 108.9; Length: 21;

Best Local Similarity: 93.48%; Field No.: 2, 40, 05;

Matches: 14; Conserved: 6; Mismatches: 1; Indels: 0; Gaps: 0;

QY 2 ACGATGGAGGCG 16

16: 111111111111

16: 3 ACGATGGAGGCG 17

RESULT: 21

US-09-998-156-428

Sequence: 428, Application No: 08/09998156

Publication No.: US20030044806A1

GENERAL INFORMATION:

1 APPLICANT: Ashkenazi, Avi J.  
 2 APPLICANT: Baker, Kevin P.  
 3 APPLICANT: Bedstein, David  
 4 APPLICANT: Beschey, S. Jane  
 5 APPLICANT: Eddou, Dan L.  
 6 APPLICANT: Ferrara, Napoleone  
 7 APPLICANT: Funt, Sherman  
 8 APPLICANT: Gertler, Hanspeter  
 9 APPLICANT: Gottlieb, Mary E.  
 10 APPLICANT: Gossard, Andrew  
 11 APPLICANT: Gudowski, Paul J.  
 12 APPLICANT: Grimaldi, Christopher  
 13 APPLICANT: Gutney, Austin L.  
 14 APPLICANT: Klapach, Gary J.  
 15 APPLICANT: Knapik, Mary A.  
 16 APPLICANT: Kohn, James  
 17 APPLICANT: Kohn, Nicholas F.  
 18 APPLICANT: Roy, Margaret Ann  
 19 APPLICANT: Stewart, Timothy A.  
 20 APPLICANT: Thomas, Daniel

APPLICANT: Watanabe, Colin K.  
APPLICANT: Williams, P. Mickey  
APPLICANT: Wood, William I.  
APPLICANT: Zhang, Zemin  
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic  
TITLE OF INVENTION: Acids Encoding the Same  
FILE REFERENCE: P2740PG28  
CURRENT APPLICATION NUMBER: US/09/998,156  
CURRENT FILING DATE: 2001-11-15  
PRIOR APPLICATION NUMBER: 60/049787  
PRIOR FILING DATE: 1997-06-16  
PRIOR APPLICATION NUMBER: 60/062250  
PRIOR FILING DATE: 1997-10-17  
PRIOR APPLICATION NUMBER: 60/065186  
PRIOR FILING DATE: 1997-11-12  
PRIOR APPLICATION NUMBER: 60/065311  
PRIOR FILING DATE: 1997-11-13  
PRIOR APPLICATION NUMBER: 60/066770  
PRIOR FILING DATE: 1997-11-24  
PRIOR APPLICATION NUMBER: 60/075945  
PRIOR FILING DATE: 1998-02-25  
PRIOR APPLICATION NUMBER: 60/078910  
PRIOR FILING DATE: 1998-03-20  
PRIOR APPLICATION NUMBER: 60/083322  
PRIOR FILING DATE: 1998-04-28  
PRIOR APPLICATION NUMBER: 60/084600  
PRIOR FILING DATE: 1998-05-07  
PRIOR APPLICATION NUMBER: 60/087106  
PRIOR FILING DATE: 1998-05-28  
PRIOR APPLICATION NUMBER: 60/087607  
PRIOR FILING DATE: 1998-06-02  
PRIOR APPLICATION NUMBER: 60/087609  
PRIOR FILING DATE: 1998-06-02  
PRIOR APPLICATION NUMBER: 60/087759  
PRIOR FILING DATE: 1998-06-02  
PRIOR APPLICATION NUMBER: 60/087827  
PRIOR FILING DATE: 1998-06-03  
PRIOR APPLICATION NUMBER: 60/088021  
PRIOR FILING DATE: 1998-06-04  
PRIOR APPLICATION NUMBER: 60/088025  
PRIOR FILING DATE: 1998-06-04  
PRIOR APPLICATION NUMBER: 60/088026  
PRIOR FILING DATE: 1998-06-04  
PRIOR APPLICATION NUMBER: 60/088028  
PRIOR FILING DATE: 1998-06-04  
PRIOR APPLICATION NUMBER: 60/088029  
PRIOR FILING DATE: 1998-06-04  
PRIOR APPLICATION NUMBER: 60/088030  
PRIOR FILING DATE: 1998-06-04  
PRIOR APPLICATION NUMBER: 60/088033  
PRIOR FILING DATE: 1998-06-04  
PRIOR APPLICATION NUMBER: 60/088326  
PRIOR FILING DATE: 1998-06-04  
PRIOR APPLICATION NUMBER: 60/088167  
PRIOR FILING DATE: 1998-06-05  
PRIOR APPLICATION NUMBER: 60/088202  
PRIOR FILING DATE: 1998-06-05  
PRIOR APPLICATION NUMBER: 60/088212  
PRIOR FILING DATE: 1998-06-05  
PRIOR APPLICATION NUMBER: 60/088217  
PRIOR FILING DATE: 1998-06-05  
PRIOR APPLICATION NUMBER: 60/088655  
PRIOR FILING DATE: 1998-06-09  
PRIOR APPLICATION NUMBER: 60/088744  
PRIOR FILING DATE: 1998-06-10  
PRIOR APPLICATION NUMBER: 60/088738  
PRIOR FILING DATE: 1998-06-10  
PRIOR APPLICATION NUMBER: 60/088742  
PRIOR FILING DATE: 1998-06-10  
PRIOR APPLICATION NUMBER: 60/088810  
PRIOR FILING DATE: 1998-06-10  
PRIOR APPLICATION NUMBER: 60/088824  
PRIOR FILING DATE: 1998-06-10  
PRIOR APPLICATION NUMBER: 60/088826  
PRIOR FILING DATE: 1998-06-10  
PRIOR APPLICATION NUMBER: 60/088858  
PRIOR FILING DATE: 1998-06-11  
PRIOR APPLICATION NUMBER: 60/088861  
PRIOR FILING DATE: 1998-06-11  
PRIOR APPLICATION NUMBER: 60/088876  
PRIOR FILING DATE: 1998-06-11  
PRIOR APPLICATION NUMBER: 60/089105  
PRIOR FILING DATE: 1998-06-12  
PRIOR APPLICATION NUMBER: 60/089440  
PRIOR FILING DATE: 1998-06-16  
PRIOR APPLICATION NUMBER: 60/089512  
PRIOR FILING DATE: 1998-06-16  
PRIOR APPLICATION NUMBER: 60/089514  
PRIOR FILING DATE: 1998-06-16  
PRIOR APPLICATION NUMBER: 60/089532  
PRIOR FILING DATE: 1998-06-17  
PRIOR APPLICATION NUMBER: 60/089538  
PRIOR FILING DATE: 1998-06-17  
PRIOR APPLICATION NUMBER: 60/089598  
PRIOR FILING DATE: 1998-06-17  
PRIOR APPLICATION NUMBER: 60/089599  
PRIOR FILING DATE: 1998-06-17  
PRIOR APPLICATION NUMBER: 60/089600  
PRIOR FILING DATE: 1998-06-17  
PRIOR APPLICATION NUMBER: 60/089653  
PRIOR FILING DATE: 1998-06-17  
PRIOR APPLICATION NUMBER: 60/089801  
PRIOR FILING DATE: 1998-06-18  
PRIOR APPLICATION NUMBER: 60/089907  
PRIOR FILING DATE: 1998-06-18  
PRIOR APPLICATION NUMBER: 60/089908  
PRIOR FILING DATE: 1998-06-18  
PRIOR APPLICATION NUMBER: 60/089947  
PRIOR FILING DATE: 1998-06-19  
PRIOR APPLICATION NUMBER: 60/089948  
PRIOR FILING DATE: 1998-06-19  
PRIOR APPLICATION NUMBER: 60/089952  
PRIOR FILING DATE: 1998-06-19  
PRIOR APPLICATION NUMBER: 60/090246  
PRIOR FILING DATE: 1998-06-22  
PRIOR APPLICATION NUMBER: 60/090252  
PRIOR FILING DATE: 1998-06-22  
PRIOR APPLICATION NUMBER: 60/090254  
PRIOR FILING DATE: 1998-06-22  
PRIOR APPLICATION NUMBER: 60/090349  
PRIOR FILING DATE: 1998-06-23  
PRIOR APPLICATION NUMBER: 60/090355  
PRIOR FILING DATE: 1998-06-23  
PRIOR APPLICATION NUMBER: 60/090429  
PRIOR FILING DATE: 1998-06-24  
PRIOR APPLICATION NUMBER: 60/090431  
PRIOR FILING DATE: 1998-06-24  
PRIOR APPLICATION NUMBER: 60/090435  
PRIOR FILING DATE: 1998-06-24  
PRIOR APPLICATION NUMBER: 60/090444  
PRIOR FILING DATE: 1998-06-24  
PRIOR APPLICATION NUMBER: 60/090445  
PRIOR FILING DATE: 1998-06-24  
PRIOR APPLICATION NUMBER: 60/090472  
PRIOR FILING DATE: 1998-06-24  
PRIOR APPLICATION NUMBER: 60/090535  
PRIOR FILING DATE: 1998-06-24  
PRIOR APPLICATION NUMBER: 60/090540  
PRIOR FILING DATE: 1998-06-24  
PRIOR APPLICATION NUMBER: 60/090542  
PRIOR FILING DATE: 1998-06-24  
PRIOR APPLICATION NUMBER: 60/090557  
PRIOR FILING DATE: 1998-06-24  
PRIOR APPLICATION NUMBER: 60/090676  
PRIOR FILING DATE: 1998-06-25  
PRIOR APPLICATION NUMBER: 60/090678





? PRIOR FILING DATE: 1998-06-11  
 ? PRIOR APPLICATION NUMBER: 60/089105  
 ? PRIOR FILING DATE: 1998-06-12  
 ? PRIOR APPLICATION NUMBER: 60/089440  
 ? PRIOR FILING DATE: 1998-06-16  
 ? PRIOR APPLICATION NUMBER: 60/089512  
 ? PRIOR FILING DATE: 1998-06-16  
 ? PRIOR APPLICATION NUMBER: 60/089514  
 ? PRIOR FILING DATE: 1998-06-16  
 ? PRIOR APPLICATION NUMBER: 60/089542  
 ? PRIOR FILING DATE: 1998-06-17  
 ? PRIOR APPLICATION NUMBER: 60/089538  
 ? PRIOR FILING DATE: 1998-06-17  
 ? PRIOR APPLICATION NUMBER: 60/089598  
 ? PRIOR FILING DATE: 1998-06-17  
 ? PRIOR APPLICATION NUMBER: 60/089599  
 ? PRIOR FILING DATE: 1998-06-17  
 ? PRIOR APPLICATION NUMBER: 60/089600  
 ? PRIOR FILING DATE: 1998-06-17  
 ? PRIOR APPLICATION NUMBER: 60/089653  
 ? PRIOR FILING DATE: 1998-06-17  
 ? PRIOR APPLICATION NUMBER: 60/089801  
 ? PRIOR FILING DATE: 1998-06-18  
 ? PRIOR APPLICATION NUMBER: 60/089907  
 ? PRIOR FILING DATE: 1998-06-18  
 ? PRIOR APPLICATION NUMBER: 60/089908  
 ? PRIOR FILING DATE: 1998-06-18  
 ? PRIOR APPLICATION NUMBER: 60/089947  
 ? PRIOR FILING DATE: 1998-06-19  
 ? PRIOR APPLICATION NUMBER: 60/089948  
 ? PRIOR FILING DATE: 1998-06-19  
 ? PRIOR APPLICATION NUMBER: 60/089952  
 ? PRIOR FILING DATE: 1998-06-19  
 ? PRIOR APPLICATION NUMBER: 60/090246  
 ? PRIOR FILING DATE: 1998-06-22  
 ? PRIOR APPLICATION NUMBER: 60/090252  
 ? PRIOR FILING DATE: 1998-06-22  
 ? PRIOR APPLICATION NUMBER: 60/090254  
 ? PRIOR FILING DATE: 1998-06-22  
 ? PRIOR APPLICATION NUMBER: 60/090349  
 ? PRIOR FILING DATE: 1998-06-23  
 ? PRIOR APPLICATION NUMBER: 60/090355  
 ? PRIOR FILING DATE: 1998-06-23  
 ? PRIOR APPLICATION NUMBER: 60/090429  
 ? PRIOR FILING DATE: 1998-06-24  
 ? PRIOR APPLICATION NUMBER: 60/090441  
 ? PRIOR FILING DATE: 1998-06-24  
 ? PRIOR APPLICATION NUMBER: 60/090445  
 ? PRIOR FILING DATE: 1998-06-24  
 ? PRIOR APPLICATION NUMBER: 60/090472  
 ? PRIOR FILING DATE: 1998-06-24  
 ? PRIOR APPLICATION NUMBER: 60/090545  
 ? PRIOR FILING DATE: 1998-06-24  
 ? PRIOR APPLICATION NUMBER: 60/090540  
 ? PRIOR FILING DATE: 1998-06-24  
 ? PRIOR APPLICATION NUMBER: 60/090542  
 ? PRIOR FILING DATE: 1998-06-24  
 ? PRIOR APPLICATION NUMBER: 60/090557  
 ? PRIOR FILING DATE: 1998-06-24  
 ? PRIOR APPLICATION NUMBER: 60/090576  
 ? PRIOR FILING DATE: 1998-06-25  
 ? PRIOR APPLICATION NUMBER: 60/090678  
 ? PRIOR FILING DATE: 1998-06-25  
 ? PRIOR APPLICATION NUMBER: 60/090690  
 ? PRIOR FILING DATE: 1998-06-25  
 ? PRIOR APPLICATION NUMBER: 60/090694  
 ? PRIOR FILING DATE: 1998-06-25  
 ? PRIOR APPLICATION NUMBER: 60/090695  
 ? PRIOR FILING DATE: 1998-06-25

? PRIOR APPLICATION NUMBER: 60/090696  
 ? PRIOR FILING DATE: 1998-06-25  
 ? PRIOR APPLICATION NUMBER: 60/090862  
 ? PRIOR FILING DATE: 1998-06-26  
 ? PRIOR APPLICATION NUMBER: 60/090863  
 ? PRIOR FILING DATE: 1998-06-26  
 ? PRIOR APPLICATION NUMBER: 60/091360  
 ? PRIOR FILING DATE: 1998-07-01  
 ? PRIOR APPLICATION NUMBER: 60/091478  
 ? PRIOR FILING DATE: 1998-07-02  
 ? PRIOR APPLICATION NUMBER: 60/091544  
 ? PRIOR FILING DATE: 1998-07-01  
 ? PRIOR APPLICATION NUMBER: 60/091519  
 ? PRIOR FILING DATE: 1998-07-02  
 ? PRIOR APPLICATION NUMBER: 60/091626  
 ? PRIOR FILING DATE: 1998-07-02  
 ? PRIOR APPLICATION NUMBER: 60/091634  
 ? PRIOR FILING DATE: 1998-07-02  
 ? PRIOR APPLICATION NUMBER: 60/091978  
 ? PRIOR FILING DATE: 1998-07-07  
 ? PRIOR APPLICATION NUMBER: 60/091982  
 ? PRIOR FILING DATE: 1998-07-07  
 ? PRIOR APPLICATION NUMBER: 60/092182  
 ? PRIOR FILING DATE: 1998-07-09

Query Match 63.98% Score 13.4; 18 10; Length 21;

Best Local Similarity 93.98; Prod. No. 2 40003; Mismatches 1; Gaps 0;

QY 2 ACCAATGAGAGAGGCG 16

Db 3 ACCAATGAGAGAGGCG 17

# RESULT 23

? Sequence 428; Application US/09989723  
 ? Patent No. US20020072092A1  
 ? GENERAL INFORMATION:  
 ? APPLICANT: Ashkenazi, Avi J.  
 ? APPLICANT: Baker, Kevin P.  
 ? APPLICANT: Bolstein, David  
 ? APPLICANT: Bosnyakov, Jue  
 ? APPLICANT: Eaton, Dan M.  
 ? APPLICANT: Ferrara, Nazzareno  
 ? APPLICANT: Fong, Sherman  
 ? APPLICANT: Gerber, Hanspeter  
 ? APPLICANT: Griffithson, Mary E.  
 ? APPLICANT: Goddard, Audrey  
 ? APPLICANT: Godowski, Paul J.  
 ? APPLICANT: Grimaldi, Christopher  
 ? APPLICANT: Gutney, Austin L.  
 ? APPLICANT: Kluver, Ivar J.  
 ? APPLICANT: Napier, Mary A.  
 ? APPLICANT: Patti, James  
 ? APPLICANT: Patti, Nicholas F.  
 ? APPLICANT: Roy, Margaret Ann  
 ? APPLICANT: Stewart, Timothy A.  
 ? APPLICANT: Thomas, Daniel  
 ? APPLICANT: Watanabe, Tolin K.  
 ? APPLICANT: Williams, P. Mickey  
 ? APPLICANT: Wood, William J.  
 ? APPLICANT: Zhar, Zemin  
 ? TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleo-  
 ? FILE REFERENCE: P2730162  
 ? CURRENT APPLICATION NUMBER: US/09/989,723  
 ? CURRENT FILING DATE: 2001-11-19  
 ? PRIOR APPLICATION NUMBER: 60/049787  
 ? PRIOR FILING DATE: 1997-06-16  
 ? PRIOR APPLICATION NUMBER: 60/062250  
 ? PRIOR FILING DATE: 1997-10-17  
 ? PRIOR APPLICATION NUMBER: 60/065186

1 PRIOR FILING DATE: 1997-11-12  
2 PRIOR APPLICATION NUMBER: 60/065411  
3 PRIOR FILING DATE: 1997-11-13  
4 PRIOR APPLICATION NUMBER: 60/066770  
5 PRIOR FILING DATE: 1997-11-24  
6 PRIOR APPLICATION NUMBER: 60/075945  
7 PRIOR FILING DATE: 1998-02-25  
8 PRIOR APPLICATION NUMBER: 60/078910  
9 PRIOR FILING DATE: 1998-03-20  
10 PRIOR APPLICATION NUMBER: 60/084422  
11 PRIOR FILING DATE: 1998-04-28  
12 PRIOR APPLICATION NUMBER: 60/084600  
13 PRIOR FILING DATE: 1998-05-07  
14 PRIOR APPLICATION NUMBER: 60/087106  
15 PRIOR FILING DATE: 1998-05-28  
16 PRIOR APPLICATION NUMBER: 60/087607  
17 PRIOR FILING DATE: 1998-06-02  
18 PRIOR APPLICATION NUMBER: 60/087609  
19 PRIOR FILING DATE: 1998-06-02  
20 PRIOR APPLICATION NUMBER: 60/087759  
21 PRIOR FILING DATE: 1998-06-02  
22 PRIOR APPLICATION NUMBER: 60/087827  
23 PRIOR FILING DATE: 1998-06-03  
24 PRIOR APPLICATION NUMBER: 60/088021  
25 PRIOR FILING DATE: 1998-06-04  
26 PRIOR APPLICATION NUMBER: 60/088025  
27 PRIOR FILING DATE: 1998-06-04  
28 PRIOR APPLICATION NUMBER: 60/088026  
29 PRIOR FILING DATE: 1998-06-04  
30 PRIOR APPLICATION NUMBER: 60/088028  
31 PRIOR FILING DATE: 1998-06-04  
32 PRIOR APPLICATION NUMBER: 60/088029  
33 PRIOR FILING DATE: 1998-06-04  
34 PRIOR APPLICATION NUMBER: 60/088040  
35 PRIOR FILING DATE: 1998-06-04  
36 PRIOR APPLICATION NUMBER: 60/088043  
37 PRIOR FILING DATE: 1998-06-04  
38 PRIOR APPLICATION NUMBER: 60/088426  
39 PRIOR FILING DATE: 1998-06-04  
40 PRIOR APPLICATION NUMBER: 60/088167  
41 PRIOR FILING DATE: 1998-06-05  
42 PRIOR APPLICATION NUMBER: 60/088202  
43 PRIOR FILING DATE: 1998-06-05  
44 PRIOR APPLICATION NUMBER: 60/088212  
45 PRIOR FILING DATE: 1998-06-05  
46 PRIOR APPLICATION NUMBER: 60/088217  
47 PRIOR FILING DATE: 1998-06-05  
48 PRIOR APPLICATION NUMBER: 60/088655  
49 PRIOR FILING DATE: 1998-06-09  
50 PRIOR APPLICATION NUMBER: 60/088744  
51 PRIOR FILING DATE: 1998-06-10  
52 PRIOR APPLICATION NUMBER: 60/088748  
53 PRIOR FILING DATE: 1998-06-10  
54 PRIOR APPLICATION NUMBER: 60/088742  
55 PRIOR FILING DATE: 1998-06-10  
56 PRIOR APPLICATION NUMBER: 60/088810  
57 PRIOR FILING DATE: 1998-06-10  
58 PRIOR APPLICATION NUMBER: 60/088824  
59 PRIOR FILING DATE: 1998-06-10  
60 PRIOR APPLICATION NUMBER: 60/088826  
61 PRIOR FILING DATE: 1998-06-10  
62 PRIOR APPLICATION NUMBER: 60/088826  
63 PRIOR FILING DATE: 1998-06-11  
64 PRIOR APPLICATION NUMBER: 60/088828  
65 PRIOR FILING DATE: 1998-06-11  
66 PRIOR APPLICATION NUMBER: 60/088861  
67 PRIOR FILING DATE: 1998-06-11  
68 PRIOR APPLICATION NUMBER: 60/088876  
69 PRIOR FILING DATE: 1998-06-11  
70 PRIOR APPLICATION NUMBER: 60/089105  
71 PRIOR FILING DATE: 1998-06-12  
72 PRIOR APPLICATION NUMBER: 60/089440  
73 PRIOR FILING DATE: 1998-06-16  
74 PRIOR APPLICATION NUMBER: 60/089512  
75 PRIOR FILING DATE: 1998-06-16

76 PRIOR APPLICATION NUMBER: 60/089514  
77 PRIOR FILING DATE: 1998-06-16  
78 PRIOR APPLICATION NUMBER: 60/089532  
79 PRIOR FILING DATE: 1998-06-17  
80 PRIOR APPLICATION NUMBER: 60/089538  
81 PRIOR FILING DATE: 1998-06-17  
82 PRIOR APPLICATION NUMBER: 60/089598  
83 PRIOR FILING DATE: 1998-06-17  
84 PRIOR APPLICATION NUMBER: 60/089599  
85 PRIOR FILING DATE: 1998-06-17  
86 PRIOR APPLICATION NUMBER: 60/089600  
87 PRIOR FILING DATE: 1998-06-17  
88 PRIOR APPLICATION NUMBER: 60/089653  
89 PRIOR FILING DATE: 1998-06-17  
90 PRIOR APPLICATION NUMBER: 60/089801  
91 PRIOR FILING DATE: 1998-06-18  
92 PRIOR APPLICATION NUMBER: 60/089907  
93 PRIOR FILING DATE: 1998-06-18  
94 PRIOR APPLICATION NUMBER: 60/089908  
95 PRIOR FILING DATE: 1998-06-18  
96 PRIOR APPLICATION NUMBER: 60/089947  
97 PRIOR FILING DATE: 1998-06-19  
98 PRIOR APPLICATION NUMBER: 60/089948  
99 PRIOR FILING DATE: 1998-06-19  
100 PRIOR APPLICATION NUMBER: 60/089952  
101 PRIOR FILING DATE: 1998-06-19  
102 PRIOR APPLICATION NUMBER: 60/090246  
103 PRIOR FILING DATE: 1998-06-22  
104 PRIOR APPLICATION NUMBER: 60/090252  
105 PRIOR FILING DATE: 1998-06-22  
106 PRIOR APPLICATION NUMBER: 60/090254  
107 PRIOR FILING DATE: 1998-06-22  
108 PRIOR APPLICATION NUMBER: 60/090449  
109 PRIOR FILING DATE: 1998-06-23  
110 PRIOR APPLICATION NUMBER: 60/090555  
111 PRIOR FILING DATE: 1998-06-23  
112 PRIOR APPLICATION NUMBER: 60/090429  
113 PRIOR FILING DATE: 1998-06-24  
114 PRIOR APPLICATION NUMBER: 60/090431  
115 PRIOR FILING DATE: 1998-06-24  
116 PRIOR APPLICATION NUMBER: 60/090435  
117 PRIOR FILING DATE: 1998-06-24  
118 PRIOR APPLICATION NUMBER: 60/090444  
119 PRIOR FILING DATE: 1998-06-24  
120 PRIOR APPLICATION NUMBER: 60/090445  
121 PRIOR FILING DATE: 1998-06-24  
122 PRIOR APPLICATION NUMBER: 60/090472  
123 PRIOR FILING DATE: 1998-06-24  
124 PRIOR APPLICATION NUMBER: 60/090535  
125 PRIOR FILING DATE: 1998-06-24  
126 PRIOR APPLICATION NUMBER: 60/090557  
127 PRIOR FILING DATE: 1998-06-24  
128 PRIOR APPLICATION NUMBER: 60/090676  
129 PRIOR FILING DATE: 1998-06-25  
130 PRIOR APPLICATION NUMBER: 60/090678  
131 PRIOR FILING DATE: 1998-06-25  
132 PRIOR APPLICATION NUMBER: 60/090690  
133 PRIOR FILING DATE: 1998-06-25  
134 PRIOR APPLICATION NUMBER: 60/090694  
135 PRIOR FILING DATE: 1998-06-25  
136 PRIOR APPLICATION NUMBER: 60/090695  
137 PRIOR FILING DATE: 1998-06-25  
138 PRIOR APPLICATION NUMBER: 60/090696  
139 PRIOR FILING DATE: 1998-06-25  
140 PRIOR APPLICATION NUMBER: 60/090862  
141 PRIOR FILING DATE: 1998-06-26  
142 PRIOR APPLICATION NUMBER: 60/090864  
143 PRIOR FILING DATE: 1998-06-26  
144 PRIOR APPLICATION NUMBER: 60/091460

? PRIOR FILING DATE: 1998-07-01  
? PRIOR APPLICATION NUMBER: 60/091478  
? PRIOR FILING DATE: 1998-07-02  
? PRIOR APPLICATION NUMBER: 60/091544  
? PRIOR FILING DATE: 1998-07-01  
? PRIOR APPLICATION NUMBER: 60/091519  
? PRIOR FILING DATE: 1998-07-02  
? PRIOR APPLICATION NUMBER: 60/091626  
? PRIOR FILING DATE: 1998-07-02  
? PRIOR APPLICATION NUMBER: 60/091633  
? PRIOR FILING DATE: 1998-07-02  
? PRIOR APPLICATION NUMBER: 60/091978  
? PRIOR FILING DATE: 1998-07-07  
? PRIOR APPLICATION NUMBER: 60/091982  
? PRIOR FILING DATE: 1998-07-07  
? PRIOR APPLICATION NUMBER: 60/092182  
? PRIOR FILING DATE: 1998-07-09

Query Match 63.88; Score 13.4; DB 10; Length 21;

Best local Similarity 93.9%; Pred. No. 2.3e+03;

Matches 14; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 2 ACCAATGCGACGCCC 16

Db 4 ACCAATGCGACGCCC 17

#### RESULT 24

US-09-989-279-428

Sequence 428, Application US/09989279

Patent No. US2002072496A1

GENERAL INFORMATION:

? APPLICANT: Ashkenazi, Avi J.  
? APPLICANT: Baker, Kevin P.  
? APPLICANT: Bolstein, David  
? APPLICANT: Desnoyers, Luc  
? APPLICANT: Eaton, Dan L.  
? APPLICANT: Ferrara, Napoleone  
? APPLICANT: Fong, Sheyman  
? APPLICANT: Gerber, Hanspeter  
? APPLICANT: Gerritsen, Mary E.  
? APPLICANT: Goddard, Audrey  
? APPLICANT: Godowski, Paul J.  
? APPLICANT: Grimaldi, J. Christopher  
? APPLICANT: Garney, Austin L.  
? APPLICANT: Kljavin, Ivar J.  
? APPLICANT: Napier, Mary A.  
? APPLICANT: Pan, James  
? APPLICANT: Paoni, Nicholas P.  
? APPLICANT: Roy, Margaret Ann  
? APPLICANT: Stewart, Timothy A.  
? APPLICANT: Tumas, Daniel  
? APPLICANT: Watanabe, Colin K.  
? APPLICANT: Williams, P. Mickey  
? APPLICANT: Wood, William I.  
? APPLICANT: Zhang, Zemin  
? TITLE OF INVENTION: Secreted and Transmembrane polypeptides and Nucleic  
? FILE REFERENCE: P2730P1C56  
? CURRENT APPLICATION NUMBER: US/09/989,279  
? CURRENT FILING DATE: 2001-11-19  
? PRIOR APPLICATION NUMBER: 60/049787  
? PRIOR FILING DATE: 1997-06-16  
? PRIOR APPLICATION NUMBER: 60/052250  
? PRIOR FILING DATE: 1997-10-17  
? PRIOR APPLICATION NUMBER: 60/065186  
? PRIOR FILING DATE: 1997-11-12  
? PRIOR APPLICATION NUMBER: 60/065311  
? PRIOR FILING DATE: 1997-11-14  
? PRIOR APPLICATION NUMBER: 60/066770  
? PRIOR FILING DATE: 1997-11-24  
? PRIOR APPLICATION NUMBER: 60/075945  
? PRIOR FILING DATE: 1998-02-25

? PRIOR APPLICATION NUMBER: 60/078910  
? PRIOR FILING DATE: 1998-04-20  
? PRIOR APPLICATION NUMBER: 60/083322  
? PRIOR FILING DATE: 1998-04-28  
? PRIOR APPLICATION NUMBER: 60/084600  
? PRIOR FILING DATE: 1998-05-07  
? PRIOR APPLICATION NUMBER: 60/087106  
? PRIOR FILING DATE: 1998-05-28  
? PRIOR APPLICATION NUMBER: 60/087607  
? PRIOR FILING DATE: 1998-06-02  
? PRIOR APPLICATION NUMBER: 60/087609  
? PRIOR FILING DATE: 1998-06-02  
? PRIOR APPLICATION NUMBER: 60/087759  
? PRIOR FILING DATE: 1998-06-02  
? PRIOR APPLICATION NUMBER: 60/087827  
? PRIOR FILING DATE: 1998-06-03  
? PRIOR APPLICATION NUMBER: 60/088021  
? PRIOR FILING DATE: 1998-06-04  
? PRIOR APPLICATION NUMBER: 60/088025  
? PRIOR FILING DATE: 1998-06-04  
? PRIOR APPLICATION NUMBER: 60/088026  
? PRIOR FILING DATE: 1998-06-04  
? PRIOR APPLICATION NUMBER: 60/088028  
? PRIOR FILING DATE: 1998-06-04  
? PRIOR APPLICATION NUMBER: 60/088029  
? PRIOR FILING DATE: 1998-06-04  
? PRIOR APPLICATION NUMBER: 60/088030  
? PRIOR FILING DATE: 1998-06-04  
? PRIOR APPLICATION NUMBER: 60/088033  
? PRIOR FILING DATE: 1998-06-04  
? PRIOR APPLICATION NUMBER: 60/088326  
? PRIOR FILING DATE: 1998-06-04  
? PRIOR APPLICATION NUMBER: 60/088167  
? PRIOR FILING DATE: 1998-06-05  
? PRIOR APPLICATION NUMBER: 60/088202  
? PRIOR FILING DATE: 1998-06-05  
? PRIOR APPLICATION NUMBER: 60/088212  
? PRIOR FILING DATE: 1998-06-05  
? PRIOR APPLICATION NUMBER: 60/088217  
? PRIOR FILING DATE: 1998-06-05  
? PRIOR APPLICATION NUMBER: 60/088655  
? PRIOR FILING DATE: 1998-06-09  
? PRIOR APPLICATION NUMBER: 60/088734  
? PRIOR FILING DATE: 1998-06-10  
? PRIOR APPLICATION NUMBER: 60/088738  
? PRIOR FILING DATE: 1998-06-10  
? PRIOR APPLICATION NUMBER: 60/088742  
? PRIOR FILING DATE: 1998-06-10  
? PRIOR APPLICATION NUMBER: 60/088810  
? PRIOR FILING DATE: 1998-06-10  
? PRIOR APPLICATION NUMBER: 60/088824  
? PRIOR FILING DATE: 1998-06-10  
? PRIOR APPLICATION NUMBER: 60/088826  
? PRIOR FILING DATE: 1998-06-10  
? PRIOR APPLICATION NUMBER: 60/088858  
? PRIOR FILING DATE: 1998-06-11  
? PRIOR APPLICATION NUMBER: 60/088861  
? PRIOR FILING DATE: 1998-06-11  
? PRIOR APPLICATION NUMBER: 60/088876  
? PRIOR FILING DATE: 1998-06-11  
? PRIOR APPLICATION NUMBER: 60/089105  
? PRIOR FILING DATE: 1998-06-12  
? PRIOR APPLICATION NUMBER: 60/089440  
? PRIOR FILING DATE: 1998-06-16  
? PRIOR APPLICATION NUMBER: 60/089512  
? PRIOR FILING DATE: 1998-06-16  
? PRIOR APPLICATION NUMBER: 60/089514  
? PRIOR FILING DATE: 1998-06-16  
? PRIOR APPLICATION NUMBER: 60/089532  
? PRIOR FILING DATE: 1998-06-17  
? PRIOR APPLICATION NUMBER: 60/089538  
? PRIOR FILING DATE: 1998-06-17  
? PRIOR APPLICATION NUMBER: 60/089598

1 PRIOR FILING DATE: 1998-06-17  
 2 PRIOR APPLICATION NUMBER: 60/089599  
 3 PRIOR FILING DATE: 1998-06-17  
 4 PRIOR APPLICATION NUMBER: 60/089600  
 5 PRIOR FILING DATE: 1998-06-17  
 6 PRIOR APPLICATION NUMBER: 60/089633  
 7 PRIOR FILING DATE: 1998-06-17  
 8 PRIOR APPLICATION NUMBER: 60/089801  
 9 PRIOR FILING DATE: 1998-06-18  
 10 PRIOR APPLICATION NUMBER: 60/089907  
 11 PRIOR FILING DATE: 1998-06-18  
 12 PRIOR APPLICATION NUMBER: 60/089908  
 13 PRIOR FILING DATE: 1998-06-18  
 14 PRIOR APPLICATION NUMBER: 60/089947  
 15 PRIOR FILING DATE: 1998-06-19  
 16 PRIOR APPLICATION NUMBER: 60/089948  
 17 PRIOR FILING DATE: 1998-06-19  
 18 PRIOR APPLICATION NUMBER: 60/089952  
 19 PRIOR FILING DATE: 1998-06-19  
 20 PRIOR APPLICATION NUMBER: 60/090246  
 21 PRIOR FILING DATE: 1998-06-22  
 22 PRIOR APPLICATION NUMBER: 60/090252  
 23 PRIOR FILING DATE: 1998-06-22  
 24 PRIOR APPLICATION NUMBER: 60/090254  
 25 PRIOR FILING DATE: 1998-06-22  
 26 PRIOR APPLICATION NUMBER: 60/090349  
 27 PRIOR FILING DATE: 1998-06-23  
 28 PRIOR APPLICATION NUMBER: 60/090455  
 29 PRIOR FILING DATE: 1998-06-24  
 30 PRIOR APPLICATION NUMBER: 60/090449  
 31 PRIOR FILING DATE: 1998-06-24  
 32 PRIOR APPLICATION NUMBER: 60/090441  
 33 PRIOR FILING DATE: 1998-06-24  
 34 PRIOR APPLICATION NUMBER: 60/090445  
 35 PRIOR FILING DATE: 1998-06-24  
 36 PRIOR APPLICATION NUMBER: 60/090472  
 37 PRIOR FILING DATE: 1998-06-24  
 38 PRIOR APPLICATION NUMBER: 60/090545  
 39 PRIOR FILING DATE: 1998-06-24  
 40 PRIOR APPLICATION NUMBER: 60/090540  
 41 PRIOR FILING DATE: 1998-06-24  
 42 PRIOR APPLICATION NUMBER: 60/090542  
 43 PRIOR FILING DATE: 1998-06-24  
 44 PRIOR APPLICATION NUMBER: 60/090557  
 45 PRIOR FILING DATE: 1998-06-24  
 46 PRIOR APPLICATION NUMBER: 60/090676  
 47 PRIOR FILING DATE: 1998-06-25  
 48 PRIOR APPLICATION NUMBER: 60/090678  
 49 PRIOR FILING DATE: 1998-06-25  
 50 PRIOR APPLICATION NUMBER: 60/090690  
 51 PRIOR FILING DATE: 1998-06-25  
 52 PRIOR APPLICATION NUMBER: 60/090694  
 53 PRIOR FILING DATE: 1998-06-25  
 54 PRIOR APPLICATION NUMBER: 60/090695  
 55 PRIOR FILING DATE: 1998-06-25  
 56 PRIOR APPLICATION NUMBER: 60/090696  
 57 PRIOR FILING DATE: 1998-06-25  
 58 PRIOR APPLICATION NUMBER: 60/090802  
 59 PRIOR FILING DATE: 1998-06-26  
 60 PRIOR APPLICATION NUMBER: 60/090803  
 61 PRIOR FILING DATE: 1998-06-26  
 62 PRIOR APPLICATION NUMBER: 60/091460  
 63 PRIOR FILING DATE: 1998-07-01  
 64 PRIOR APPLICATION NUMBER: 60/091478  
 65 PRIOR FILING DATE: 1998-07-02  
 66 PRIOR APPLICATION NUMBER: 60/091544  
 67 PRIOR FILING DATE: 1998-07-01  
 68 PRIOR APPLICATION NUMBER: 60/091519  
 69 PRIOR FILING DATE: 1998-07-02

1 PRIOR APPLICATION NUMBER: 60/091626  
 2 PRIOR FILING DATE: 1998-07-02  
 3 PRIOR APPLICATION NUMBER: 60/091633  
 4 PRIOR FILING DATE: 1998-07-02  
 5 PRIOR APPLICATION NUMBER: 60/091678  
 6 PRIOR FILING DATE: 1998-07-07  
 7 PRIOR APPLICATION NUMBER: 60/091982  
 8 PRIOR FILING DATE: 1998-07-07  
 9 PRIOR APPLICATION NUMBER: 60/092182  
 10 PRIOR FILING DATE: 1998-07-09

Query Match: 63.8% Score: 13.4: PR: 10: Length: 21:  
 Best Local Similarity: 95.4%: Pred. No.: 2: 3: 0: 0:  
 Matches: 14: Conservative: 0: Mismatches: 1: Indels: 0: Gaps: 0:

QY 2 ACCVATGCAAGCC 16  
 DB 3 ACCVATGCAAGCC 17

# RESULTS

US-09-989-727-429  
 1 Sequence: 428, Application US/09/989727  
 2 Patent No. US20020072497A1  
 3 GENERAL INFORMATION:  
 4 APPLICANT: Ashkenazi, Avi J.  
 5 APPLICANT: Baker, Kevin P.  
 6 APPLICANT: Borstein, David  
 7 APPLICANT: Desnoyers, Dan  
 8 APPLICANT: Eaton, Dan L.  
 9 APPLICANT: Fortin, Napoleon  
 10 APPLICANT: Ford, Sherman  
 11 APPLICANT: Gerber, Hanspeter  
 12 APPLICANT: Gottlieb, Mary E.  
 13 APPLICANT: Goddard, Audrey  
 14 APPLICANT: Godowski, Paul J.  
 15 APPLICANT: Grimaldi, Christopher  
 16 APPLICANT: Gurney, Austin L.  
 17 APPLICANT: Klayton, Paul J.  
 18 APPLICANT: Napier, Mary A.  
 19 APPLICANT: Park, James  
 20 APPLICANT: Pami, Nicholas F.  
 21 APPLICANT: Roy, Margaret Ann  
 22 APPLICANT: Stewart, Timothy A.  
 23 APPLICANT: Tamas, Daniel  
 24 APPLICANT: Watanabe, Colin K.  
 25 APPLICANT: Williams, P. Mickey  
 26 APPLICANT: Wood, William L.  
 27 APPLICANT: Zhaiter, Zeev  
 28 TITLE OF INVENTION: Sorted and Transmembrane Polypeptides and Nucleo-  
 29 FILE REFERENCE: 127401065  
 30 CURRENT APPLICATION NUMBER: US/09/989-727  
 31 CURRENT FILING DATE: 2001-11-19  
 32 PRIOR APPLICATION NUMBER: 60/049787  
 33 PRIOR FILING DATE: 1997-06-16  
 34 PRIOR APPLICATION NUMBER: 60/062250  
 35 PRIOR FILING DATE: 1997-10-17  
 36 PRIOR APPLICATION NUMBER: 60/065186  
 37 PRIOR FILING DATE: 1997-11-12  
 38 PRIOR APPLICATION NUMBER: 60/065411  
 39 PRIOR FILING DATE: 1997-11-13  
 40 PRIOR APPLICATION NUMBER: 60/066770  
 41 PRIOR FILING DATE: 1997-11-24  
 42 PRIOR APPLICATION NUMBER: 60/071945  
 43 PRIOR FILING DATE: 1998-02-25  
 44 PRIOR APPLICATION NUMBER: 60/078910  
 45 PRIOR FILING DATE: 1998-03-20  
 46 PRIOR APPLICATION NUMBER: 60/084522  
 47 PRIOR FILING DATE: 1998-04-28  
 48 PRIOR APPLICATION NUMBER: 60/084600  
 49 PRIOR FILING DATE: 1998-05-07  
 50 PRIOR APPLICATION NUMBER: 60/087106

[illegible]

;  
; PRIOR FILING DATE: 1998-07-07  
; PRIOR APPLICATION NUMBER: 66/092182  
; PRIOR FILING DATE: 1998-07-09

Query Match: 64.8%; Score: 13.4; DB: 10; Length: 21;  
Best Local Similarity: 93.8%; Prod. No.: 2.4e-04;  
Matches: 14; Conservative: 0; Mismatches: 1; Indels: 0; Gaps: 0;

QY 2 ACCGATGGAGGCG 16  
DB 3 ACCGATGGAGGCG 17

Search completed: March 18, 2003, 13:29:19  
Job time : 46.7705 secs

Genfore version 5.1.4-p5.4578  
Copyright (c) 1993 - 2003 Compugen Ltd.

DM nucleic - nucleic search, using sw model

Run on: March 18, 2003, 11:26:36 : Search time 33.1148 Seconds  
(without alignments)  
423.899 Million cell updates/sec

Title: us-09-900-115-1

Perfect score: 20

Sequence: 1 gapsequenceadadadad 20

Scoring table: IDENTITY\_NBC

Gapop 10.0, Gapext 1.0

Searched: 501402 seqs, 45094545 residues

Total number of hits satisfying chosen parameters: 282480

Minimum DB seq length: 0

Maximum DB seq length: 50

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 1000 summaries

Database : Published\_Applications\_NA : \*

1: /cqn2\_6/ptodata/2/pubpna/US07\_PUBCOMB.seq : \*

2: /cqn2\_6/ptodata/2/pubpna/US07\_NEW\_PUB.seq : \*

3: /cqn2\_6/ptodata/2/pubpna/US06\_NEW\_PUB.seq : \*

4: /cqn2\_6/ptodata/2/pubpna/US06\_PUBCOMB.seq : \*

5: /cqn2\_6/ptodata/2/pubpna/US07\_NEW\_PUB.seq : \*

6: /cqn2\_6/ptodata/2/pubpna/US08\_PUBCOMB.seq : \*

7: /cqn2\_6/ptodata/2/pubpna/US08\_NEW\_PUB.seq : \*

8: /cqn2\_6/ptodata/2/pubpna/US08\_PUBCOMB.seq : \*

9: /cqn2\_6/ptodata/2/pubpna/US09\_PUB.seq : \*

10: /cqn2\_6/ptodata/2/pubpna/US09\_PUBCOMB.seq : \*

11: /cqn2\_6/ptodata/2/pubpna/US10\_NEW\_PUB.seq : \*

12: /cqn2\_6/ptodata/2/pubpna/US10\_PUBCOMB.seq : \*

13: /cqn2\_6/ptodata/2/pubpna/US60\_NEW\_PUB.seq : \*

14: /cqn2\_6/ptodata/2/pubpna/US60\_PUBCOMB.seq : \*

Prod. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

#### SUMMARIES

Result No.	Score	Query Match	Length DB	ID	Description
c 1	15.2	76.0	45	10	US-09-867-274-19
c 2	14.8	74.0	26	9	US-10-010-717-4
c 3	14.8	74.0	26	9	US-10-010-717-5
c 4	14.8	74.0	26	10	US-09-799-160-20
c 5	14.4	72.0	21	9	US-09-835-471-52
c 6	14.4	72.0	21	9	US-09-835-470-52
c 7	14.2	71.0	20	9	US-09-944-1488-4
c 8	14.2	71.0	40	9	US-09-874-504-47
c 9	14.2	71.0	40	9	US-10-000-157-47
c 10	14.2	71.0	40	9	US-09-747-259-47
c 11	14	70.0	21	10	US-09-765-081-279
c 12	14.2	66.0	25	9	US-10-141-854-4
c 13	12.6	64.0	20	9	US-09-996-253-20
c 14	12.6	64.0	20	9	US-09-824-3228-141
c 15	12.6	64.0	20	9	US-09-888-326-779
c 16	12.6	64.0	20	9	US-09-944-1488-4
c 17	12.6	64.0	48	10	US-09-854-688-11
c 18	12.6	64.0	50	10	US-09-920-400A-1257
c 19	12.6	64.0	50	12	US-10-033-528-1257

Sequence 8, Appl	20	61.0	12.2	9	US-09-945-464-8
Sequence 3, Appl	20	61.0	12.2	10	US-09-858-994-3
Sequence 10, Appl	28	61.0	12.2	9	US-09-795-904A-10
Sequence 11, Appl	28	61.0	12.2	9	US-09-795-904A-11
Sequence 19, Appl	28	61.0	12.2	10	US-09-796-264-10
Sequence 11, Appl	28	61.0	12.2	10	US-09-796-264-11
Sequence 10, Appl	28	61.0	12.2	10	US-09-845-226-10
Sequence 11, Appl	28	61.0	12.2	10	US-09-845-226-11
Sequence 49, Appl	31	61.0	12.2	10	US-09-895-072-49
Sequence 49, Appl	31	61.0	12.2	10	US-09-896-552-49
Sequence 3, Appl	38	61.0	12.2	10	US-09-817-814-3
Sequence 14, Appl	16	60.0	12	12	US-10-028-158-14
Sequence 15, Appl	16	60.0	12	12	US-10-028-158-15
Sequence 100, Appl	23	60.0	12	9	US-10-043-297-100
Sequence 100, Appl	23	60.0	12	9	US-09-940-244-100
Sequence 11, Appl	27	60.0	12	10	US-09-761-466-11
Sequence 16, Appl	27	60.0	12	10	US-09-872-349-16
Sequence 28, Appl	27	60.0	12	10	US-09-872-349-28
Sequence 1157, Appl	41	60.0	12	10	US-09-801-274-1157
Sequence 2, Appl	48	60.0	12	9	US-10-092-908-2
Sequence 19, Appl	40	60.0	12	9	US-09-826-025-19
Sequence 44, Appl	41	60.0	12	9	US-10-072-438-44
Sequence 68, Appl	43	60.0	12	9	US-09-925-664-68
Sequence 5, Appl	47	60.0	12	9	US-09-945-917-5
Sequence 3482, Appl	48	60.0	12	9	US-09-864-785-3482
Sequence 68, Appl	17	59.0	11.8	10	US-09-866-108-686
Sequence 68, Appl	17	59.0	11.8	10	US-09-866-108-687
Sequence 68, Appl	17	59.0	11.8	10	US-09-866-108-688
Sequence 29, Appl	22	59.0	11.8	10	US-09-798-743A-29
Sequence 3615, Appl	25	59.0	11.8	10	US-09-866-108-3615
Sequence 3616, Appl	25	59.0	11.8	10	US-09-866-108-3616
Sequence 3617, Appl	25	59.0	11.8	10	US-09-866-108-3617
Sequence 3618, Appl	25	59.0	11.8	10	US-09-866-108-3618
Sequence 3619, Appl	25	59.0	11.8	10	US-09-866-108-3619
Sequence 3620, Appl	25	59.0	11.8	10	US-09-866-108-3620
Sequence 3621, Appl	25	59.0	11.8	10	US-09-866-108-3621
Sequence 3622, Appl	25	59.0	11.8	10	US-09-866-108-3622
Sequence 3623, Appl	25	59.0	11.8	10	US-09-866-108-3623
Sequence 3624, Appl	25	59.0	11.8	10	US-09-866-108-3624
Sequence 3625, Appl	25	59.0	11.8	10	US-09-866-108-3625
Sequence 24, Appl	26	59.0	11.8	9	US-09-931-732-24
Sequence 109, Appl	28	59.0	11.8	9	US-09-996-634-109
Sequence 5, Appl	29	59.0	11.8	12	US-10-153-740-5
Sequence 7, Appl	29	59.0	11.8	12	US-10-153-740-7
Sequence 9, Appl	30	59.0	11.8	8	US-08-462-1598-9
Sequence 7, Appl	30	59.0	11.8	10	US-09-986-191-7
Sequence 105, Appl	31	59.0	11.8	9	US-09-912-263-105
Sequence 44, Appl	32	59.0	11.8	10	US-09-982-610-44
Sequence 47, Appl	33	59.0	11.8	10	US-09-873-676-47
Sequence 15, Appl	46	59.0	11.8	9	US-10-128-323-15
Sequence 22, Appl	22	58.0	11.6	10	US-09-416-384A-22
Sequence 4189, Appl	22	58.0	11.6	10	US-09-997-664-47
Sequence 4190, Appl	25	58.0	11.6	10	US-09-866-108-4189
Sequence 4191, Appl	25	58.0	11.6	10	US-09-866-108-4190
Sequence 4192, Appl	25	58.0	11.6	10	US-09-866-108-4191
Sequence 4193, Appl	25	58.0	11.6	10	US-09-866-108-4192
Sequence 4194, Appl	25	58.0	11.6	10	US-09-866-108-4193
Sequence 4195, Appl	25	58.0	11.6	10	US-09-866-108-4194
Sequence 4196, Appl	25	58.0	11.6	10	US-09-866-108-4195
Sequence 4197, Appl	25	58.0	11.6	10	US-09-866-108-4196
Sequence 11, Appl	25	58.0	11.6	10	US-09-398-399-11
Sequence 11, Appl	25	58.0	11.6	10	US-09-899-381-11
Sequence 20, Appl	26	58.0	11.6	9	US-09-793-139-20
Sequence 20, Appl	26	58.0	11.6	10	US-09-818-879-20
Sequence 20, Appl	26	58.0	11.6	10	US-09-211-755B-20
Sequence 10, Appl	28	58.0	11.6	10	US-09-971-798-10
Sequence 25, Appl	41	58.0	11.6	9	US-09-877-705A-25
Sequence 26, Appl	41	58.0	11.6	9	US-09-877-705A-26
Sequence 25, Appl	41	58.0	11.6	9	US-09-877-738A-25
Sequence 26, Appl	41	58.0	11.6	9	US-09-877-738A-26
Sequence 20, Appl	43	58.0	11.6	9	US-10-136-734-20
Sequence 21, Appl	43	58.0	11.6	9	US-10-136-734-21
Sequence 24, Appl	43	58.0	11.6	9	US-10-136-734-24





c 249	10.8	54.0	50	9	US-09-747-477-101	Sequence 101, App	312	10.6	54.0	48	9	US-09-864-785-855	Sequence 855, App
c 240	10.8	54.0	50	9	US-10-011-941-10	Sequence 10, Appl	313	10.6	54.0	48	10	US-09-742-348-18	Sequence 18, Appl
c 241	10.8	54.0	50	10	US-09-179-5308-402	Sequence 302, App	314	10.6	54.0	48	12	US-10-007-448-6	Sequence 6, Appl
c 242	10.8	54.0	50	10	US-09-179-5308-403	Sequence 403, App	c 315	10.6	54.0	49	9	US-09-972-834-3	Sequence 3, Appl
c 243	10.6	54.0	17	10	US-09-866-108-1260	Sequence 1260, App	c 316	10.6	54.0	40	9	US-10-101-392-16	Sequence 16, Appl
c 244	10.6	54.0	17	10	US-09-866-108-8424	Sequence 8323, App	c 317	10.6	54.0	40	9	US-10-101-392-18	Sequence 18, Appl
c 245	10.6	54.0	17	10	US-09-866-108-8964	Sequence 8964, App	c 318	10.6	54.0	42	9	US-09-942-087A-31	Sequence 31, Appl
c 246	10.6	54.0	20	9	US-09-824-4228-536	Sequence 53, Appl	c 319	10.6	54.0	42	9	US-09-942-087A-32	Sequence 32, Appl
c 247	10.6	54.0	20	9	US-10-057-550-70	Sequence 70, Appl	c 320	10.6	54.0	42	10	US-09-779-233-19	Sequence 19, Appl
c 248	10.6	54.0	20	10	US-09-754-167-10	Sequence 10, Appl	c 321	10.6	54.0	42	10	US-09-779-233-20	Sequence 20, Appl
c 249	10.6	54.0	20	10	US-09-925-548-91	Sequence 91, Appl	c 322	10.6	54.0	42	10	US-09-844-508-30	Sequence 30, Appl
c 250	10.6	54.0	21	10	US-09-782-837-17	Sequence 17, Appl	c 323	10.6	54.0	42	10	US-09-757-207-28	Sequence 28, Appl
c 251	10.6	54.0	22	10	US-09-918-889-25	Sequence 25, Appl	c 324	10.6	54.0	43	9	US-09-900-379-111	Sequence 111, App
c 252	10.6	54.0	22	10	US-09-919-042-25	Sequence 25, Appl	c 325	10.6	54.0	43	10	US-09-848-164-111	Sequence 111, App
c 253	10.6	54.0	24	9	US-09-970-820-11	Sequence 11, Appl	c 326	10.6	54.0	44	9	US-09-821-616-24	Sequence 24, Appl
c 254	10.6	54.0	24	9	US-09-986-718-11	Sequence 11, Appl	c 327	10.6	54.0	45	9	US-10-085-853-21	Sequence 21, Appl
c 255	10.6	54.0	24	10	US-09-371-900-11	Sequence 11, Appl	c 328	10.6	54.0	45	10	US-09-918-889-28	Sequence 28, Appl
c 256	10.6	54.0	25	10	US-09-866-108-4197	Sequence 4197, App	c 329	10.6	54.0	45	10	US-09-919-042-28	Sequence 28, Appl
c 257	10.6	54.0	25	10	US-09-866-108-14215	Sequence 14215, A	c 330	10.6	54.0	46	9	US-09-978-295A-440	Sequence 440, App
c 258	10.6	54.0	25	10	US-09-866-108-14216	Sequence 14216, A	c 331	10.6	54.0	46	9	US-09-978-697-440	Sequence 440, App
c 259	10.6	54.0	25	10	US-09-866-108-14217	Sequence 14217, A	c 332	10.6	54.0	46	9	US-09-978-192A-440	Sequence 440, App
c 260	10.6	54.0	25	10	US-09-866-108-14218	Sequence 14218, A	c 333	10.6	54.0	46	9	US-09-999-832A-440	Sequence 440, App
c 261	10.6	54.0	25	10	US-09-866-108-14219	Sequence 14219, A	c 334	10.6	54.0	46	9	US-09-978-189-440	Sequence 440, App
c 262	10.6	54.0	25	10	US-09-866-108-14220	Sequence 14220, A	c 335	10.6	54.0	46	9	US-09-940-244-233	Sequence 244, App
c 263	10.6	54.0	25	10	US-09-866-108-14221	Sequence 14221, A	c 336	10.6	54.0	46	9	US-09-978-608A-440	Sequence 440, App
c 264	10.6	54.0	25	10	US-09-866-108-14222	Sequence 14222, A	c 337	10.6	54.0	46	10	US-09-932-679-14	Sequence 14, Appl
c 265	10.6	54.0	25	10	US-09-866-108-14223	Sequence 14223, A	c 338	10.6	54.0	46	10	US-09-932-679-15	Sequence 15, Appl
c 266	10.6	54.0	25	10	US-09-866-108-14856	Sequence 14856, A	c 339	10.6	54.0	49	9	US-09-796-679-14	Sequence 14, Appl
c 267	10.6	54.0	25	10	US-09-866-108-14857	Sequence 14857, A	c 340	10.6	54.0	50	9	US-09-765-555-25	Sequence 25, Appl
c 268	10.6	54.0	25	10	US-09-866-108-14858	Sequence 14858, A	c 341	10.6	54.0	50	9	US-09-765-555-25	Sequence 25, Appl
c 269	10.6	54.0	25	10	US-09-866-108-14859	Sequence 14859, A	c 342	10.4	52.0	12	9	US-09-835-371-26	Sequence 26, Appl
c 270	10.6	54.0	25	10	US-09-866-108-14860	Sequence 14860, A	c 343	10.4	52.0	12	9	US-09-835-370-26	Sequence 26, Appl
c 271	10.6	54.0	25	10	US-09-866-108-14861	Sequence 14861, A	c 344	10.4	52.0	12	10	US-09-365-029-28	Sequence 28, Appl
c 272	10.6	54.0	25	10	US-09-866-108-14862	Sequence 14862, A	c 345	10.4	52.0	12	10	US-09-365-029-28	Sequence 28, Appl
c 273	10.6	54.0	25	10	US-09-866-108-14863	Sequence 14863, A	c 346	10.4	52.0	15	10	US-09-504-231A-417	Sequence 417, App
c 274	10.6	54.0	25	10	US-09-866-108-14864	Sequence 14864, A	c 347	10.4	52.0	15	10	US-09-274-5530-417	Sequence 417, App
c 275	10.6	54.0	26	10	US-09-894-643A-6	Sequence 6, Appl	c 348	10.4	52.0	16	10	US-09-829-855-11	Sequence 11, Appl
c 276	10.6	54.0	28	9	US-09-746-457-1857	Sequence 1857, App	c 349	10.4	52.0	17	10	US-09-866-108-683	Sequence 684, App
c 277	10.6	54.0	28	9	US-09-902-941-1857	Sequence 1857, App	c 350	10.4	52.0	20	9	US-10-094-546-1	Sequence 1, Appl
c 278	10.6	54.0	28	9	US-09-849-626-1857	Sequence 1857, App	c 351	10.4	52.0	21	9	US-09-942-300-26	Sequence 26, Appl
c 279	10.6	54.0	28	10	US-09-817-487-11	Sequence 11, Appl	c 352	10.4	52.0	24	9	US-10-033-297-99	Sequence 99, Appl
c 280	10.6	54.0	29	9	US-10-145-014-14	Sequence 14, Appl	c 353	10.4	52.0	24	9	US-09-940-244-99	Sequence 99, Appl
c 281	10.6	54.0	29	10	US-09-982-408-14	Sequence 14, Appl	c 354	10.4	52.0	24	10	US-09-333-966-7	Sequence 7, Appl
c 282	10.6	54.0	30	9	US-09-875-454-44	Sequence 44, Appl	c 355	10.4	52.0	24	9	US-09-804-759-22	Sequence 22, Appl
c 283	10.6	54.0	30	9	US-09-875-454-46	Sequence 46, Appl	c 356	10.4	52.0	24	10	US-09-920-342-9	Sequence 9, Appl
c 284	10.6	54.0	30	10	US-09-986-191-5	Sequence 5, Appl	c 357	10.4	52.0	25	9	US-09-942-087A-13	Sequence 13, Appl
c 285	10.6	54.0	30	10	US-09-971-798-8	Sequence 8, Appl	c 358	10.4	52.0	25	10	US-09-779-233-1	Sequence 1, Appl
c 286	10.6	54.0	31	10	US-09-801-274-155	Sequence 155, App	c 359	10.4	52.0	25	10	US-09-866-108-3612	Sequence 3612, App
c 287	10.6	54.0	31	10	US-09-801-274-848	Sequence 848, App	c 360	10.4	52.0	26	9	US-09-977-797A-4	Sequence 4, Appl
c 288	10.6	54.0	31	10	US-09-801-274-849	Sequence 849, App	c 361	10.4	52.0	28	9	US-09-807-720-1	Sequence 1, Appl
c 289	10.6	54.0	31	10	US-09-801-274-905	Sequence 905, App	c 362	10.4	52.0	40	9	US-10-072-841-23	Sequence 23, Appl
c 290	10.6	54.0	31	10	US-09-801-274-952	Sequence 952, App	c 363	10.4	52.0	40	10	US-09-791-171-159	Sequence 159, App
c 291	10.6	54.0	31	10	US-09-801-274-1205	Sequence 1205, App	c 364	10.4	52.0	41	10	US-09-801-274-409	Sequence 409, App
c 292	10.6	54.0	31	10	US-09-801-274-1726	Sequence 1726, App	c 365	10.4	52.0	41	10	US-09-801-274-996	Sequence 996, App
c 293	10.6	54.0	31	10	US-09-940-251-8	Sequence 8, Appl	c 366	10.4	52.0	41	10	US-09-801-274-1061	Sequence 1061, App
c 294	10.6	54.0	32	9	US-09-972-844-8	Sequence 8, Appl	c 367	10.4	52.0	43	9	US-09-416-579A-11	Sequence 11, Appl
c 295	10.6	54.0	33	9	US-10-051-989-8	Sequence 8, Appl	c 368	10.4	52.0	43	9	US-09-726-258-23	Sequence 23, Appl
c 296	10.6	54.0	33	9	US-09-861-097-8	Sequence 8, Appl	c 369	10.4	52.0	45	9	US-10-012-896-899	Sequence 899, App
c 297	10.6	54.0	33	9	US-10-158-684-5	Sequence 5, Appl	c 370	10.4	52.0	45	9	US-09-876-082-27	Sequence 27, Appl
c 298	10.6	54.0	33	9	US-10-158-711-5	Sequence 5, Appl	c 371	10.4	52.0	45	9	US-09-895-793-899	Sequence 899, App
c 299	10.6	54.0	33	9	US-09-966-781A-21	Sequence 21, Appl	c 372	10.4	52.0	45	9	US-09-895-814-899	Sequence 899, App
c 300	10.6	54.0	33	9	US-09-861-098-8	Sequence 8, Appl	c 373	10.4	52.0	45	9	US-09-875-082-27	Sequence 27, Appl
c 301	10.6	54.0	34	9	US-10-051-989-8	Sequence 8, Appl	c 374	10.4	52.0	45	10	US-09-759-143-899	Sequence 899, App
c 302	10.6	54.0	34	9	US-09-991-470-8	Sequence 8, Appl	c 375	10.4	52.0	45	10	US-09-780-669-899	Sequence 899, App
c 303	10.6	54.0	34	9	US-09-861-097-4	Sequence 3, Appl	c 376	10.4	52.0	45	10	US-09-740-668A-74	Sequence 74, Appl
c 304	10.6	54.0	34	9	US-09-861-098-3	Sequence 3, Appl	c 377	10.4	52.0	45	10	US-09-822-821-899	Sequence 899, App
c 305	10.6	54.0	34	10	US-09-971-187-6	Sequence 6, Appl	c 378	10.4	52.0	45	10	US-09-872-154-27	Sequence 27, Appl
c 306	10.6	54.0	35	9	US-09-896-896A-27	Sequence 27, Appl	c 379	10.4	52.0	45	10	US-09-924-439-15	Sequence 15, Appl
c 307	10.6	54.0	35	10	US-09-949-408A-1	Sequence 1, Appl	c 380	10.4	52.0	46	10	US-09-824-286-7	Sequence 7, Appl
c 308	10.6	54.0	35	10	US-09-758-126-26	Sequence 26, App	c 381	10.4	52.0	46	10	US-09-902-741-2	Sequence 2, Appl
c 309	10.6	54.0	36	9	US-09-864-921-149	Sequence 149, App	c 382	10.4	52.0	47	10	US-09-854-799-15	Sequence 15, App
c 310	10.6	54.0	36	9	US-09-864-921-150	Sequence 150, App	c 383	10.4	52.0	49	10	US-09-740-668A-75	Sequence 75, Appl
c 311	10.6	54.0	36	9	US-09-966-781A-19	Sequence 19, Appl	c 384	10.4	52.0	49	9	US-09-925-664-64	Sequence 64, Appl

c 485	10.4	52.0	41	9	US 09-925-664-69	Sequence 69, Appl	458	10.2	51.0	29	10	US 09-006-298-8	Sequence 8, Appl
c 486	10.4	52.0	41	9	US 10-043-573-41	Sequence 11, Appl	c 459	10.2	51.0	29	10	US 09-817-464-20	Sequence 20, Appl
c 487	10.4	52.0	43	9	US 09-747-377-111	Sequence 111, Appl	c 460	10.2	51.0	40	7	US 09-979-847-61	Sequence 61, Appl
c 488	10.4	52.0	44	9	US 09-925-664-57	Sequence 57, Appl	c 461	10.2	51.0	40	10	US 09-777-4-50A-21	Sequence 21, Appl
c 489	10.4	52.0	44	9	US 09-925-664-71	Sequence 71, Appl	c 462	10.2	51.0	41	9	US 09-912-263-191	Sequence 191, Appl
c 490	10.4	52.0	45	9	US 10-012-896-784	Sequence 784, Appl	c 463	10.2	51.0	41	9	US 09-912-263-446	Sequence 446, Appl
c 491	10.4	52.0	45	9	US 10-012-896-784	Sequence 784, Appl	c 464	10.2	51.0	41	9	US 09-912-263-457	Sequence 457, Appl
c 492	10.4	52.0	45	9	US 09-895-793-784	Sequence 784, Appl	c 465	10.2	51.0	41	10	US 09-801-274-762	Sequence 762, Appl
c 493	10.4	52.0	45	9	US 09-895-793-784	Sequence 784, Appl	c 466	10.2	51.0	41	10	US 09-801-274-861	Sequence 861, Appl
c 494	10.4	52.0	45	9	US 09-895-814-784	Sequence 784, Appl	c 467	10.2	51.0	41	10	US 09-801-274-1347	Sequence 1347, Appl
c 495	10.4	52.0	45	9	US 09-895-814-784	Sequence 784, Appl	c 468	10.2	51.0	41	10	US 09-801-274-1524	Sequence 1524, Appl
c 496	10.4	52.0	45	9	US 09-895-814-784	Sequence 784, Appl	c 469	10.2	51.0	46	9	US 10-007-414-1580	Sequence 1580, Appl
c 497	10.4	52.0	45	10	US 09-007-142-11	Sequence 11, Appl	c 470	10.2	51.0	46	9	US 10-007-414-1580	Sequence 15, Appl
c 498	10.4	52.0	45	10	US 09-765-873A-29	Sequence 29, Appl	c 471	10.2	51.0	46	10	US 09-766-186-16	Sequence 16, Appl
c 499	10.4	52.0	45	10	US 09-765-873A-30	Sequence 30, Appl	c 472	10.2	51.0	46	10	US 09-504-231A-1825	Sequence 1825, Appl
c 500	10.4	52.0	45	10	US 09-759-143-784	Sequence 784, Appl	c 473	10.2	51.0	46	10	US 09-504-231A-2374	Sequence 2374, Appl
c 401	10.4	52.0	45	10	US 09-759-143-784	Sequence 784, Appl	c 474	10.2	51.0	46	10	US 09-274-5540-1825	Sequence 1825, Appl
c 402	10.4	52.0	45	10	US 09-780-669-784	Sequence 784, Appl	c 475	10.2	51.0	46	10	US 09-274-5540-2474	Sequence 2474, Appl
c 403	10.4	52.0	45	10	US 09-780-669-784	Sequence 784, Appl	c 476	10.2	51.0	46	12	US 10-007-628-10	Sequence 10, Appl
c 404	10.4	52.0	45	10	US 09-822-827-784	Sequence 784, Appl	c 477	10.2	51.0	46	12	US 10-007-628-10	Sequence 1, Appl
c 405	10.4	52.0	45	10	US 09-822-827-784	Sequence 784, Appl	c 478	10.2	51.0	47	9	US 10-083-168-29	Sequence 29, Appl
c 406	10.4	52.0	46	10	US 09-896-050A-1	Sequence 1, Appl	c 479	10.2	51.0	47	10	US 09-878-766A-1	Sequence 1, Appl
c 407	10.4	52.0	46	10	US 09-384-472-5	Sequence 5, Appl	c 480	10.2	51.0	47	10	US 09-858-217-1	Sequence 1, Appl
c 408	10.4	52.0	46	10	US 09-384-472-5	Sequence 5, Appl	c 481	10.2	51.0	49	10	US 09-921-099-5	Sequence 5, Appl
c 409	10.4	52.0	48	9	US 09-864-785-3018	Sequence 3018, Appl	c 482	10.2	51.0	49	12	US 10-051-843-22	Sequence 22, Appl
c 410	10.4	52.0	48	9	US 09-864-785-3306	Sequence 3306, Appl	c 483	10.2	51.0	40	9	US 10-093-944-5	Sequence 5, Appl
c 411	10.2	51.0	15	10	US 09-504-231A-216	Sequence 216, Appl	c 484	10.2	51.0	41	9	US 10-201-410-10	Sequence 10, Appl
c 412	10.2	51.0	15	10	US 09-274-5540-216	Sequence 216, Appl	c 485	10.2	51.0	41	10	US 09-113-924-3	Sequence 3, Appl
c 413	10.2	51.0	17	9	US 09-864-785-375	Sequence 375, Appl	c 486	10.2	51.0	41	10	US 09-843-846-5	Sequence 5, Appl
c 414	10.2	51.0	17	9	US 09-864-785-1579	Sequence 1579, Appl	c 487	10.2	51.0	41	10	US 09-843-846-7	Sequence 7, Appl
c 415	10.2	51.0	17	9	US 09-825-805-349	Sequence 349, Appl	c 488	10.2	51.0	42	9	US 09-941-492-110	Sequence 110, Appl
c 416	10.2	51.0	17	9	US 09-904-968A-104	Sequence 104, Appl	c 489	10.2	51.0	43	10	US 09-951-622-4	Sequence 4, Appl
c 417	10.2	51.0	17	10	US 09-866-108-1257	Sequence 1257, Appl	c 490	10.2	51.0	43	10	US 09-951-622-8	Sequence 8, Appl
c 418	10.2	51.0	17	10	US 09-866-108-18421	Sequence 8421, Appl	c 491	10.2	51.0	43	9	US 09-905-291A-225	Sequence 225, Appl
c 419	10.2	51.0	17	10	US 09-866-108-18422	Sequence 8422, Appl	c 492	10.2	51.0	44	9	US 09-902-853-225	Sequence 225, Appl
c 420	10.2	51.0	18	9	US 09-935-404-12	Sequence 12, Appl	c 493	10.2	51.0	44	9	US 09-907-824-225	Sequence 225, Appl
c 421	10.2	51.0	19	9	US 09-932-300-45	Sequence 35, Appl	c 494	10.2	51.0	44	9	US 09-907-824-225	Sequence 225, Appl
c 422	10.2	51.0	19	10	US 09-074-881-2	Sequence 2, Appl	c 495	10.2	51.0	44	9	US 09-904-850-225	Sequence 225, Appl
c 423	10.2	51.0	20	9	US 10-125-181-41	Sequence 41, Appl	c 496	10.2	51.0	44	9	US 09-904-850-225	Sequence 225, Appl
c 424	10.2	51.0	20	10	US 09-733-294A-42	Sequence 42, Appl	c 497	10.2	51.0	44	9	US 09-904-850-225	Sequence 225, Appl
c 425	10.2	51.0	20	10	US 09-820-587-2	Sequence 2, Appl	c 498	10.2	51.0	44	9	US 09-906-646-225	Sequence 225, Appl
c 426	10.2	51.0	20	10	US 09-925-548-85	Sequence 85, Appl	c 499	10.2	51.0	44	9	US 09-907-942-225	Sequence 225, Appl
c 427	10.2	51.0	20	12	US 10-068-067-9	Sequence 9, Appl	c 500	10.2	51.0	44	9	US 09-904-850-225	Sequence 225, Appl
c 428	10.2	51.0	21	10	US 09-860-784-69	Sequence 69, Appl	c 501	10.2	51.0	44	9	US 09-904-850-225	Sequence 225, Appl
c 429	10.2	51.0	22	9	US 09-784-818-15	Sequence 15, Appl	c 502	10.2	51.0	44	9	US 09-904-850-225	Sequence 225, Appl
c 430	10.2	51.0	22	10	US 09-770-967-15	Sequence 15, Appl	c 503	10.2	51.0	44	9	US 09-909-204-225	Sequence 225, Appl
c 431	10.2	51.0	22	10	US 09-858-369-15	Sequence 15, Appl	c 504	10.2	51.0	44	9	US 09-904-786-225	Sequence 225, Appl
c 432	10.2	51.0	22	10	US 09-819-522-15	Sequence 15, Appl	c 505	10.2	51.0	44	9	US 09-906-646-225	Sequence 225, Appl
c 433	10.2	51.0	22	10	US 09-757-251-16	Sequence 16, Appl	c 506	10.2	51.0	44	9	US 09-902-903-225	Sequence 225, Appl
c 434	10.2	51.0	22	10	US 09-784-897A-15	Sequence 15, Appl	c 507	10.2	51.0	44	9	US 09-903-749A-225	Sequence 225, Appl
c 435	10.2	51.0	22	10	US 09-770-983-15	Sequence 15, Appl	c 508	10.2	51.0	44	9	US 09-903-749A-225	Sequence 225, Appl
c 436	10.2	51.0	22	10	US 09-828-325A-16	Sequence 16, Appl	c 509	10.2	51.0	44	10	US 09-909-320-225	Sequence 225, Appl
c 437	10.2	51.0	22	10	US 09-757-217A-16	Sequence 16, Appl	c 510	10.2	51.0	44	10	US 09-909-320-225	Sequence 225, Appl
c 438	10.2	51.0	22	10	US 09-828-259A-16	Sequence 16, Appl	c 511	10.2	51.0	45	10	US 09-824-588-3	Sequence 3, Appl
c 439	10.2	51.0	22	10	US 09-860-784-70	Sequence 70, Appl	c 512	10.2	51.0	45	10	US 09-284-664A-29	Sequence 29, Appl
c 440	10.2	51.0	23	9	US 09-990-385-34	Sequence 34, Appl	c 513	10.2	51.0	45	10	US 09-284-664A-30	Sequence 30, Appl
c 441	10.2	51.0	23	9	US 09-964-261-76	Sequence 76, Appl	c 514	10.2	51.0	45	10	US 09-999-672-28	Sequence 28, Appl
c 442	10.2	51.0	23	9	US 09-964-261-71	Sequence 71, Appl	c 515	10.2	51.0	45	10	US 09-999-672-28	Sequence 28, Appl
c 443	10.2	51.0	23	9	US 09-964-261-77	Sequence 77, Appl	c 516	10.2	51.0	45	10	US 10-040-863-28	Sequence 28, Appl
c 444	10.2	51.0	23	10	US 09-860-996-14	Sequence 14, Appl	c 517	10.2	51.0	45	10	US 10-040-863-28	Sequence 28, Appl
c 445	10.2	51.0	23	10	US 09-305-856B-110	Sequence 110, Appl	c 518	10	50.0	10	12	US 10-033-145-1983	Sequence 1983, Appl
c 446	10.2	51.0	24	9	US 09-964-261-70	Sequence 70, Appl	c 519	10	50.0	17	10	US 09-866-108-8870	Sequence 8870, Appl
c 447	10.2	51.0	24	9	US 09-964-261-76	Sequence 76, Appl	c 520	10	50.0	17	10	US 09-866-108-8870	Sequence 8870, Appl
c 448	10.2	51.0	25	9	US 09-964-261-71	Sequence 71, Appl	c 521	10	50.0	17	10	US 09-866-108-8871	Sequence 8871, Appl
c 449	10.2	51.0	25	9	US 09-964-261-77	Sequence 77, Appl	c 522	10	50.0	17	10	US 09-866-108-8872	Sequence 8872, Appl
c 450	10.2	51.0	25	10	US 09-866-108-1486	Sequence 1486, Appl	c 523	10	50.0	17	10	US 09-866-108-8873	Sequence 8873, Appl
c 451	10.2	51.0	25	10	US 09-866-108-14214	Sequence 14214, Appl	c 524	10	50.0	17	10	US 09-866-108-8874	Sequence 8874, Appl
c 452	10.2	51.0	25	10	US 09-866-108-14214	Sequence 14214, Appl	c 525	10	50.0	17	10	US 09-866-108-8875	Sequence 8875, Appl
c 453	10.2	51.0	25	10	US 09-398-399-12	Sequence 12, Appl	c 526	10	50.0	17	10	US 09-866-108-8876	Sequence 8876, Appl
c 454	10.2	51.0	25	10	US 09-899-481-12	Sequence 12, Appl	c 527	10	50.0	18	10	US 09-904-744-4	Sequence 4, Appl
c 455	10.2	51.0	28	9	US 09-899-046-66	Sequence 66, Appl	c 528	10	50.0	19	10	US 09-844-508-15	Sequence 15, Appl
c 456	10.2	51.0	28	9	US 09-878-281-66	Sequence 66, Appl	c 529	10	50.0	20	9	US 09-874-162A-22	Sequence 22, Appl
c 457	10.2	51.0	28	10	US 09-865-644-22	Sequence 22, Appl	c 530	10	50.0	20	10	US 09-865-812-3	Sequence 3, Appl

c 541	10	50.0	21	9	US-09-747-419-4	Sequence 4, Appl	604	10	50.0	31	10	US-09-760-574-20	Sequence 20, Appl
c 542	10	50.0	21	9	US-09-885-849-7	Sequence 7, Appl	c 605	10	50.0	32	9	US-09-876-082-6	Sequence 6, Appl
c 543	10	50.0	21	9	US-09-821-005A-4	Sequence 3, Appl	c 606	10	50.0	32	9	US-09-875-082-6	Sequence 6, Appl
c 544	10	50.0	21	9	US-10-044-400-11	Sequence 11, Appl	c 607	10	50.0	33	9	US-09-918-696-4	Sequence 4, Appl
c 545	10	50.0	21	9	US-09-765-081-15	Sequence 15, Appl	c 608	10	50.0	33	9	US-09-918-696-4	Sequence 4, Appl
c 546	10	50.0	21	10	US-09-765-081-444	Sequence 444, Appl	c 609	10	50.0	33	9	US-09-817-519A-29	Sequence 29, Appl
c 547	10	50.0	23	9	US-09-747-894-1	Sequence 1, Appl	c 610	10	50.0	33	10	US-09-760-574-22	Sequence 22, Appl
c 548	10	50.0	24	9	US-09-754-854A-681	Sequence 681, App	c 611	10	50.0	34	9	US-09-789-054A-53	Sequence 53, Appl
c 549	10	50.0	25	10	US-09-766-478A-31	Sequence 31, Appl	c 612	10	50.0	34	9	US-09-922-549B-5	Sequence 5, Appl
c 540	10	50.0	25	8	US-08-647-444-9	Sequence 9, Appl	c 613	10	50.0	36	10	US-09-007-094-17	Sequence 17, Appl
c 541	10	50.0	25	9	US-09-904-968A-14	Sequence 14, Appl	c 614	10	50.0	36	10	US-09-027-287-42	Sequence 42, Appl
c 542	10	50.0	25	9	US-10-060-840-1072	Sequence 1072, Ap	c 615	10	50.0	36	10	US-09-252-656B-42	Sequence 42, Appl
c 543	10	50.0	25	9	US-10-060-840-1073	Sequence 1073, Ap	c 616	10	50.0	36	10	US-09-850-716A-435	Sequence 435, App
c 544	10	50.0	25	9	US-10-060-840-1074	Sequence 1074, Ap	c 617	10	50.0	36	10	US-09-897-778-435	Sequence 435, App
c 545	10	50.0	25	9	US-10-060-840-1075	Sequence 1075, Ap	c 618	10	50.0	37	10	US-09-776-695-20	Sequence 20, Appl
c 546	10	50.0	25	9	US-10-060-840-1076	Sequence 1076, Ap	c 619	10	50.0	38	9	US-09-864-785-1308	Sequence 1308, Ap
c 547	10	50.0	25	9	US-10-060-840-1077	Sequence 1077, Ap	c 620	10	50.0	38	9	US-09-930-125-24	Sequence 24, Appl
c 548	10	50.0	25	9	US-10-060-840-1078	Sequence 1078, Ap	c 621	10	50.0	38	10	US-09-905-842-1	Sequence 1, Appl
c 549	10	50.0	25	9	US-10-060-840-1079	Sequence 1079, Ap	c 622	10	50.0	39	9	US-10-114-170-47	Sequence 47, Appl
c 550	10	50.0	25	10	US-09-866-108-10974	Sequence 10974, A	c 623	10	50.0	39	10	US-09-825-012-17	Sequence 17, Appl
c 551	10	50.0	25	10	US-09-866-108-10975	Sequence 10975, A	c 624	10	50.0	41	9	US-09-925-664-67	Sequence 67, Appl
c 552	10	50.0	25	10	US-09-866-108-10976	Sequence 10976, A	c 625	10	50.0	41	10	US-09-878-654A-19	Sequence 19, Appl
c 553	10	50.0	25	10	US-09-866-108-10977	Sequence 10977, A	c 626	10	50.0	41	10	US-09-557-423-10	Sequence 10, Appl
c 554	10	50.0	25	10	US-09-866-108-10978	Sequence 10978, A	c 627	10	50.0	42	9	US-09-943-722-96	Sequence 96, Appl
c 555	10	50.0	25	10	US-09-866-108-10979	Sequence 10979, A	c 628	10	50.0	42	9	US-09-970-561-5	Sequence 5, Appl
c 556	10	50.0	25	10	US-09-866-108-10980	Sequence 10980, A	c 629	10	50.0	45	9	US-09-975-719-124	Sequence 124, App
c 557	10	50.0	25	10	US-09-866-108-10981	Sequence 10981, A	c 630	10	50.0	48	9	US-09-905-291A-470	Sequence 470, App
c 558	10	50.0	25	10	US-09-866-108-13761	Sequence 13761, A	c 631	10	50.0	48	9	US-09-916-494A-45	Sequence 45, Appl
c 559	10	50.0	25	10	US-09-866-108-13762	Sequence 13762, A	c 632	10	50.0	48	9	US-09-864-785-4509	Sequence 4509, App
c 560	10	50.0	25	10	US-09-866-108-13763	Sequence 13763, A	c 633	10	50.0	48	9	US-09-902-853-470	Sequence 470, App
c 561	10	50.0	25	10	US-09-866-108-13764	Sequence 13764, A	c 634	10	50.0	48	9	US-09-907-824-470	Sequence 470, App
c 562	10	50.0	25	10	US-09-866-108-13765	Sequence 13765, A	c 635	10	50.0	48	9	US-09-907-841-470	Sequence 470, App
c 563	10	50.0	25	10	US-09-866-108-13766	Sequence 13766, A	c 636	10	50.0	48	9	US-09-904-011-370	Sequence 470, App
c 564	10	50.0	25	10	US-09-866-108-13767	Sequence 13767, A	c 637	10	50.0	48	9	US-09-826-115-4	Sequence 4, Appl
c 565	10	50.0	25	10	US-09-866-108-13768	Sequence 13768, A	c 638	10	50.0	48	9	US-09-906-742-470	Sequence 470, App
c 566	10	50.0	25	10	US-09-866-108-13769	Sequence 13769, A	c 639	10	50.0	48	9	US-09-906-838-370	Sequence 470, App
c 567	10	50.0	25	10	US-09-866-108-13770	Sequence 13770, A	c 640	10	50.0	48	9	US-09-907-613-470	Sequence 470, App
c 568	10	50.0	25	10	US-09-866-108-13771	Sequence 13771, A	c 641	10	50.0	48	9	US-09-907-942-470	Sequence 470, App
c 569	10	50.0	25	10	US-09-866-108-13772	Sequence 13772, A	c 642	10	50.0	48	9	US-09-904-820-370	Sequence 470, App
c 570	10	50.0	25	10	US-09-866-108-13773	Sequence 13773, A	c 643	10	50.0	48	9	US-09-904-859-470	Sequence 470, App
c 571	10	50.0	25	10	US-09-866-108-13774	Sequence 13774, A	c 644	10	50.0	48	9	US-09-909-204-470	Sequence 470, App
c 572	10	50.0	25	10	US-09-866-108-13775	Sequence 13775, A	c 645	10	50.0	48	9	US-09-904-786-370	Sequence 470, App
c 573	10	50.0	25	10	US-09-866-108-13776	Sequence 13776, A	c 646	10	50.0	48	9	US-09-906-646-370	Sequence 470, App
c 574	10	50.0	25	10	US-09-866-108-15478	Sequence 15478, A	c 647	10	50.0	48	9	US-09-906-700-470	Sequence 470, App
c 575	10	50.0	25	10	US-09-866-108-15486	Sequence 15486, A	c 648	10	50.0	48	9	US-09-902-903-370	Sequence 470, App
c 576	10	50.0	25	10	US-09-828-310-40	Sequence 310, Appl	c 649	10	50.0	48	9	US-09-903-749A-370	Sequence 470, App
c 577	10	50.0	25	10	US-09-918-702-19	Sequence 19, Appl	c 650	10	50.0	48	9	US-09-903-786-370	Sequence 470, App
c 578	10	50.0	26	8	US-08-463-404-25	Sequence 25, Appl	c 651	10	50.0	48	10	US-09-798-058-20	Sequence 20, Appl
c 579	10	50.0	26	9	US-09-949-134A-24	Sequence 24, Appl	c 652	10	50.0	48	10	US-09-909-320-470	Sequence 470, App
c 580	10	50.0	26	9	US-09-940-244-416	Sequence 416, App	c 653	10	50.0	48	10	US-09-909-088B-470	Sequence 470, App
c 581	10	50.0	27	9	US-10-158-895-7	Sequence 7, Appl	c 654	9.8	49.0	13	10	US-09-747-538-13	Sequence 13, Appl
c 582	10	50.0	27	9	US-09-997-868-43	Sequence 43, Appl	c 655	9.8	49.0	13	10	US-09-747-538-13	Sequence 13, Appl
c 583	10	50.0	29	9	US-10-117-476-9	Sequence 9, Appl	c 656	9.8	49.0	16	9	US-09-904-968A-20	Sequence 20, Appl
c 584	10	50.0	29	9	US-09-729-658B-41	Sequence 41, Appl	c 657	9.8	49.0	17	9	US-09-864-785-6	Sequence 6, Appl
c 585	10	50.0	29	9	US-10-155-479-4	Sequence 3, Appl	c 658	9.8	49.0	17	9	US-09-864-785-2665	Sequence 2665, App
c 586	10	50.0	29	10	US-09-745-764-94	Sequence 94, Appl	c 659	9.8	49.0	17	9	US-09-864-785-2666	Sequence 2666, App
c 587	10	50.0	29	10	US-09-899-917-4	Sequence 4, Appl	c 660	9.8	49.0	17	10	US-09-866-108-77	Sequence 77, Appl
c 588	10	50.0	40	9	US-10-074-402-4	Sequence 4, Appl	c 661	9.8	49.0	18	9	US-09-942-400-77	Sequence 10, Appl
c 589	10	50.0	40	9	US-10-109-471-6	Sequence 6, Appl	c 662	9.8	49.0	19	9	US-10-074-246-10	Sequence 10, Appl
c 590	10	50.0	40	9	US-10-096-724-1	Sequence 1, Appl	c 663	9.8	49.0	19	10	US-09-817-014-57	Sequence 57, Appl
c 591	10	50.0	40	9	US-09-744-517-24	Sequence 24, Appl	c 664	9.8	49.0	19	10	US-09-780-668A-20	Sequence 20, Appl
c 592	10	50.0	40	9	US-10-010-920-42	Sequence 42, Appl	c 665	9.8	49.0	20	9	US-09-824-422B-189	Sequence 189, App
c 593	10	50.0	40	9	US-10-175-002-6	Sequence 6, Appl	c 666	9.8	49.0	20	9	US-09-963-668B-14	Sequence 14, Appl
c 594	10	50.0	40	10	US-09-809-442A-5	Sequence 5, Appl	c 667	9.8	49.0	20	9	US-09-880-419A-207	Sequence 207, App
c 595	10	50.0	40	10	US-09-887-854-4	Sequence 4, Appl	c 668	9.8	49.0	21	9	US-09-923-070A-20	Sequence 20, Appl
c 596	10	50.0	41	9	US-09-860-474-51	Sequence 51, Appl	c 669	9.8	49.0	21	9	US-09-923-070A-20	Sequence 20, Appl
c 597	10	50.0	41	9	US-09-912-263-484	Sequence 484, App	c 670	9.8	49.0	21	9	US-10-074-246-42	Sequence 42, Appl
c 598	10	50.0	41	9	US-09-912-263-484	Sequence 484, App	c 671	9.8	49.0	21	9	US-10-006-856A-299	Sequence 299, App
c 599	10	50.0	41	10	US-09-801-274-795	Sequence 795, App	c 672	9.8	49.0	21	10	US-09-765-081-270	Sequence 270, App
c 600	10	50.0	41	10	US-09-801-274-795	Sequence 795, App	c 673	9.8	49.0	21	10	US-09-858-728-43	Sequence 43, Appl
c 601	10	50.0	41	10	US-09-801-274-1195	Sequence 1195, App	c 674	9.8	49.0	22	9	US-10-124-986-25	Sequence 25, Appl
c 602	10	50.0	41	10	US-09-801-274-1241	Sequence 1241, App	c 675	9.8	49.0	22	10	US-09-874-448-7	Sequence 7, Appl
c 603	10	50.0	41	10	US-09-801-274-1698	Sequence 1698, App	c 676	9.8	49.0	22	10	US-09-981-649A-25	Sequence 25, Appl

c 677	9.8	49.0	24	9	US-09-978-295A-570	Sequence 570, App	750	9.8	49.0	27	10	US-09-781-804-45	Sequence 45, Appl
c 678	9.8	49.0	24	9	US-09-978-647-570	Sequence 570, App	c 751	9.8	49.0	40	9	US-09-858-580-10	Sequence 10, Appl
c 679	9.8	49.0	24	9	US-09-978-192A-570	Sequence 570, App	c 752	9.8	49.0	40	9	US-09-847-172-10	Sequence 10, Appl
c 680	9.8	49.0	24	9	US-09-991-004B-5	Sequence 5, Appl	753	9.8	49.0	40	9	US-09-887-194A-1	Sequence 1, Appl
c 681	9.8	49.0	24	9	US-10-034-257-101	Sequence 101, App	754	9.8	49.0	40	9	US-09-887-194A-6	Sequence 6, Appl
c 682	9.8	49.0	24	9	US-09-999-842A-570	Sequence 570, App	755	9.8	49.0	41	9	US-09-898-580-11	Sequence 11, Appl
c 683	9.8	49.0	24	9	US-09-978-189-570	Sequence 570, App	756	9.8	49.0	41	9	US-09-847-172-11	Sequence 11, Appl
c 684	9.8	49.0	24	9	US-09-940-244-101	Sequence 101, App	c 757	9.8	49.0	41	9	US-09-912-263-42	Sequence 42, Appl
c 685	9.8	49.0	24	9	US-09-978-608A-570	Sequence 570, App	758	9.8	49.0	41	9	US-09-912-263-215	Sequence 215, App
c 686	9.8	49.0	24	10	US-09-860-784-60	Sequence 60, Appl	759	9.8	49.0	41	9	US-09-912-263-437	Sequence 437, App
c 687	9.8	49.0	24	9	US-09-970-989-47	Sequence 47, Appl	760	9.8	49.0	41	10	US-09-801-274-126	Sequence 126, App
c 688	9.8	49.0	24	9	US-09-992-598-526	Sequence 526, App	c 761	9.8	49.0	43	9	US-10-006-852-19	Sequence 19, Appl
c 689	9.8	49.0	24	9	US-09-963-875-6	Sequence 6, Appl	c 762	9.8	49.0	43	10	US-09-732-348-15	Sequence 15, Appl
c 690	9.8	49.0	24	9	US-10-136-517-9	Sequence 9, Appl	c 763	9.8	49.0	46	8	US-08-987-756-6	Sequence 6, Appl
c 691	9.8	49.0	24	9	US-09-989-294A-526	Sequence 526, App	c 764	9.8	49.0	46	9	US-09-966-546-47	Sequence 47, Appl
c 692	9.8	49.0	24	9	US-09-989-735-526	Sequence 526, App	c 765	9.8	49.0	46	9	US-09-966-545-47	Sequence 47, Appl
c 693	9.8	49.0	24	9	US-09-990-444-526	Sequence 526, App	c 766	9.8	49.0	46	9	US-09-965-212-47	Sequence 47, Appl
c 694	9.8	49.0	24	9	US-09-989-740-526	Sequence 526, App	c 767	9.8	49.0	46	10	US-09-882-246-44	Sequence 44, Appl
c 695	9.8	49.0	24	9	US-09-990-436-526	Sequence 526, App	c 768	9.8	49.0	46	10	US-09-825-012-20	Sequence 20, Appl
c 696	9.8	49.0	24	9	US-09-991-181-526	Sequence 526, App	769	9.8	49.0	48	10	US-09-732-348-20	Sequence 20, Appl
c 697	9.8	49.0	24	9	US-09-993-687-526	Sequence 526, App	c 770	9.8	49.0	48	10	US-09-750-021-1	Sequence 1, Appl
c 698	9.8	49.0	24	9	US-09-989-744-526	Sequence 526, App	c 771	9.8	49.0	48	10	US-09-755-840-14	Sequence 14, Appl
c 699	9.8	49.0	24	9	US-09-997-653-526	Sequence 526, App	772	9.8	49.0	49	9	US-10-079-136-23	Sequence 23, Appl
c 700	9.8	49.0	24	9	US-09-994-667-526	Sequence 526, App	773	9.8	49.0	49	9	US-10-072-438-9	Sequence 9, Appl
c 701	9.8	49.0	24	9	US-09-990-448-526	Sequence 526, App	774	9.8	49.0	49	9	US-10-137-765-11	Sequence 11, Appl
c 702	9.8	49.0	24	9	US-09-990-562-526	Sequence 526, App	c 775	9.8	49.0	49	9	US-10-146-437-11	Sequence 11, Appl
c 703	9.8	49.0	24	9	US-09-997-428-526	Sequence 526, App	c 776	9.8	49.0	49	10	US-09-901-908-5	Sequence 5, Appl
c 704	9.8	49.0	24	9	US-09-997-666-526	Sequence 526, App	c 777	9.8	49.0	49	10	US-09-760-574-21	Sequence 21, Appl
c 705	9.8	49.0	24	9	US-09-990-711-526	Sequence 526, App	c 778	9.8	49.0	49	12	US-10-116-064-8	Sequence 8, Appl
c 706	9.8	49.0	24	9	US-10-136-891-4	Sequence 4, Appl	779	9.8	49.0	40	9	US-09-860-474-227	Sequence 227, App
c 707	9.8	49.0	24	9	US-09-989-726-526	Sequence 526, App	780	9.8	49.0	40	10	US-09-733-400-7	Sequence 7, Appl
c 708	9.8	49.0	24	9	US-09-990-437-526	Sequence 526, App	c 781	9.8	49.0	40	10	US-09-912-679-80	Sequence 80, Appl
c 709	9.8	49.0	24	9	US-09-998-156-526	Sequence 526, App	c 782	9.8	49.0	42	10	US-09-824-568-3	Sequence 3, Appl
c 710	9.8	49.0	24	9	US-10-006-856A-200	Sequence 200, App	c 783	9.8	49.0	44	10	US-09-824-567-3	Sequence 3, Appl
c 711	9.8	49.0	24	10	US-09-836-077-31	Sequence 31, Appl	784	9.8	49.0	45	10	US-09-932-679-23	Sequence 23, Appl
c 712	9.8	49.0	24	10	US-09-989-722-526	Sequence 526, App	785	9.8	49.0	48	9	US-09-864-785-4298	Sequence 4298, App
c 713	9.8	49.0	24	10	US-09-989-723-526	Sequence 526, App	786	9.8	49.0	48	9	US-09-864-785-4300	Sequence 4300, App
c 714	9.8	49.0	24	10	US-09-989-724-526	Sequence 526, App	787	9.8	49.0	48	9	US-09-864-785-4315	Sequence 4315, App
c 715	9.8	49.0	24	10	US-09-989-725-526	Sequence 526, App	788	9.8	49.0	48	9	US-09-864-785-4316	Sequence 4316, App
c 716	9.8	49.0	24	10	US-09-989-726-526	Sequence 526, App	789	9.8	49.0	48	9	US-09-864-785-4626	Sequence 4626, App
c 717	9.8	49.0	24	10	US-09-989-731-526	Sequence 526, App	c 790	9.8	49.0	49	10	US-09-920-552-125	Sequence 125, App
c 718	9.8	49.0	24	10	US-09-991-073-526	Sequence 526, App	791	9.8	48.0	16	9	US-09-829-1552-9	Sequence 9, Appl
c 719	9.8	49.0	24	10	US-09-990-442-526	Sequence 526, App	792	9.8	48.0	16	9	US-09-943-488-15	Sequence 15, Appl
c 720	9.8	49.0	24	10	US-09-991-163-526	Sequence 526, App	793	9.8	48.0	16	10	US-09-941-314-19	Sequence 19, Appl
c 721	9.8	49.0	24	10	US-09-993-604-526	Sequence 526, App	c 794	9.8	48.0	17	9	US-09-864-785-145	Sequence 145, App
c 722	9.8	49.0	24	10	US-09-990-456-526	Sequence 526, App	c 795	9.8	48.0	17	9	US-09-864-785-264	Sequence 264, App
c 723	9.8	49.0	24	10	US-09-989-721-526	Sequence 526, App	c 796	9.8	48.0	17	9	US-09-864-785-2102	Sequence 2102, App
c 724	9.8	49.0	25	9	US-09-757-543-6	Sequence 6, Appl	c 797	9.8	48.0	17	9	US-09-864-785-2872	Sequence 2872, App
c 725	9.8	49.0	25	10	US-09-866-108-4627	Sequence 4627, App	798	9.8	48.0	17	9	US-09-825-805-491	Sequence 491, App
c 726	9.8	49.0	26	8	US-08-818-581B-1	Sequence 1, Appl	799	9.8	48.0	17	9	US-09-961-077-100	Sequence 100, App
c 727	9.8	49.0	26	9	US-09-905-291A-271	Sequence 271, App	800	9.8	48.0	17	9	US-10-060-830-819	Sequence 819, App
c 728	9.8	49.0	26	9	US-09-902-853-271	Sequence 271, App	c 801	9.8	48.0	17	9	US-10-060-830-820	Sequence 820, App
c 729	9.8	49.0	26	9	US-09-907-824-271	Sequence 271, App	c 802	9.8	48.0	17	9	US-10-060-830-820	Sequence 820, App
c 730	9.8	49.0	26	9	US-09-907-841-271	Sequence 271, App	c 803	9.8	48.0	17	9	US-10-060-756A-490	Sequence 490, App
c 731	9.8	49.0	26	9	US-09-904-011-271	Sequence 271, App	c 804	9.8	48.0	17	9	US-10-060-756A-490	Sequence 490, App
c 732	9.8	49.0	26	9	US-09-906-742-271	Sequence 271, App	c 805	9.8	48.0	17	9	US-10-060-756A-491	Sequence 491, App
c 733	9.8	49.0	26	9	US-09-906-838-271	Sequence 271, App	c 806	9.8	48.0	17	10	US-09-866-108-1261	Sequence 1261, App
c 734	9.8	49.0	26	9	US-09-907-613-271	Sequence 271, App	c 807	9.8	48.0	17	10	US-09-866-108-8324	Sequence 8324, App
c 735	9.8	49.0	26	9	US-09-907-942-271	Sequence 271, App	c 808	9.8	48.0	17	10	US-09-866-108-8963	Sequence 8963, App
c 736	9.8	49.0	26	9	US-09-904-820-271	Sequence 271, App	c 809	9.8	48.0	17	10	US-09-866-108-8965	Sequence 8965, App
c 737	9.8	49.0	26	9	US-09-904-859-271	Sequence 271, App	c 810	9.8	48.0	17	10	US-09-895-040A-79	Sequence 79, Appl
c 738	9.8	49.0	26	9	US-09-909-204-271	Sequence 271, App	c 811	9.8	48.0	17	10	US-09-895-040A-80	Sequence 80, Appl
c 739	9.8	49.0	26	9	US-09-904-786-271	Sequence 271, App	c 812	9.8	48.0	18	9	US-09-904-966A-90	Sequence 90, Appl
c 740	9.8	49.0	26	9	US-09-906-646-271	Sequence 271, App	c 813	9.8	48.0	18	10	US-09-954-697-47	Sequence 47, Appl
c 741	9.8	49.0	26	9	US-09-906-700-271	Sequence 271, App	c 814	9.8	48.0	20	9	US-09-824-422B-119	Sequence 119, App
c 742	9.8	49.0	26	9	US-09-902-903-271	Sequence 271, App	c 815	9.8	48.0	20	10	US-09-733-299A-10	Sequence 10, Appl
c 743	9.8	49.0	26	9	US-09-903-749A-271	Sequence 271, App	c 816	9.8	48.0	20	10	US-09-854-883-59	Sequence 59, Appl
c 744	9.8	49.0	26	9	US-09-903-786-271	Sequence 271, App	c 817	9.8	48.0	20	10	US-09-825-497-17	Sequence 17, Appl
c 745	9.8	49.0	26	10	US-09-909-320-271	Sequence 271, App	c 818	9.8	48.0	20	10	US-09-791-406-13	Sequence 13, Appl
c 746	9.8	49.0	26	10	US-09-909-088B-271	Sequence 271, App	c 819	9.8	48.0	20	10	US-09-791-406-14	Sequence 14, Appl
c 747	9.8	49.0	27	9	US-10-164-621-7	Sequence 7, Appl	c 820	9.8	48.0	21	10	US-09-765-081-429	Sequence 429, App
c 748	9.8	49.0	27	9	US-10-125-451-7	Sequence 7, Appl	c 821	9.8	48.0	21	10	US-09-984-183-23	Sequence 23, Appl
c 749	9.8	49.0	27	10	US-09-817-014-165	Sequence 165, App	c 822	9.8	48.0	22	9	US-09-978-295A-471	Sequence 471, App



```

c 969      9.6 48.0 41 9 US 09 904 820 26 Sequence 26, Appl
c 970      9.6 48.0 41 9 US 09 904 859 26 Sequence 26, Appl
c 971      9.6 48.0 41 9 US 09 904 204 26 Sequence 26, Appl
c 972      9.6 48.0 41 9 US 09 904 786 26 Sequence 26, Appl
c 973      9.6 48.0 41 9 US 09 906 646 26 Sequence 26, Appl
c 974      9.6 48.0 41 9 US 09 906 700 26 Sequence 26, Appl
c 975      9.6 48.0 41 9 US 10 066 269 102 Sequence 102, Appl
c 976      9.6 48.0 41 9 US 09 902 903 26 Sequence 26, Appl
c 977      9.6 48.0 41 9 US 09 904 749A-26 Sequence 26, Appl
c 978      9.6 48.0 41 9 US 09 904 786-26 Sequence 26, Appl
c 979      9.6 48.0 41 9 US 10 066 193-102 Sequence 102, Appl
c 980      9.6 48.0 41 9 US 10 066 211-102 Sequence 102, Appl
c 981      9.6 48.0 41 9 US 09 909 320-26 Sequence 26, Appl
c 982      9.6 48.0 41 10 US 09 823 829-29 Sequence 29, Appl
c 983      9.6 48.0 41 10 US 09 909 088B-26 Sequence 26, Appl
c 984      9.6 48.0 42 10 US 09 756 186-13 Sequence 13, Appl
c 985      9.6 48.0 42 10 US 09 918 889-27 Sequence 27, Appl
c 986      9.6 48.0 42 10 US 09 919 042-27 Sequence 27, Appl
c 987      9.6 48.0 43 9 US 10 158 735-6 Sequence 6, Appl
c 988      9.6 48.0 43 9 US 10 211 069-50 Sequence 50, Appl
c 989      9.6 48.0 45 10 US 09 997 579-43 Sequence 43, Appl
c 990      9.6 48.0 47 9 US 09 905 291A-349 Sequence 43, Appl
c 991      9.6 48.0 47 9 US 09 902 853-349 Sequence 43, Appl
c 992      9.6 48.0 47 9 US 09 907 824-349 Sequence 43, Appl
c 993      9.6 48.0 47 9 US 09 907 841-349 Sequence 43, Appl
c 994      9.6 48.0 47 9 US 09 904 011 349 Sequence 43, Appl
c 995      9.6 48.0 47 9 US 09 906 742 349 Sequence 43, Appl
c 996      9.6 48.0 47 9 US 09 906 838-349 Sequence 43, Appl
c 997      9.6 48.0 47 9 US 09 907 613 349 Sequence 43, Appl
c 998      9.6 48.0 47 9 US 09 907 942 349 Sequence 43, Appl
c 999      9.6 48.0 47 9 US 09 904 820 349 Sequence 43, Appl
c1000      9.6 48.0 47 9 US 09 904 859 349 Sequence 43, Appl

```

## ALIGNMENTS

```

RESULT 1
US 09 867 274 19/c
: Sequence 19, Application US/09867274
: Patent No. US20020106650A1
: GENERAL INFORMATION:
: APPLICANT: Paszty, Christopher
: APPLICANT: Gao, Yeming
: TITLE OF INVENTION: Cysteine Knot Polypeptides: Cloned-2 Molecules and Uses Thereof
: FILE REFERENCE: 0101737428
: CURRENT APPLICATION NUMBER: US/09/867,274
: CURRENT FILING DATE: 2001-05-29
: PRIOR APPLICATION NUMBER: US 60/208,550
: PRIOR FILING DATE: 2000-06-01
: PRIOR APPLICATION NUMBER: US 60/224,542
: PRIOR FILING DATE: 2000-08-04
: NUMBER OF SEQ ID NOS: 25
: SOFTWARE: Patent In Version 3.0
: SEQ ID NO 19
: LENGTH: 45
: TYPE: DNA
: ORGANISM: Artificial Sequence
: FEATURE:
: OTHER INFORMATION: Artificial; PCR primer
US 09 867 274 19

```

```

Query Match
Best Local Similarity 76.0%; Score 15.2; DB 10; Length 45;
Matches 12; Conservation 0; Mismatches 3; Indels 0; Gaps 0;

```

```

QY 1 GAGAGGATGATGAGGAGGAGG 20
   ||||| ||||| ||||| |||||
DB 41 GAGAGGATGATGAGGAGGAGG 12

```

```

RESULT 2
US 10 010 717 4/c

```

```

: Sequence 4, Application US/10010717
: Patent No. US20020165089A1
: GENERAL INFORMATION:
: APPLICANT: Vinayak, Kavi S.
: APPLICANT: Lee, Linda G.
: APPLICANT: Mollab, Khairuzzaman B.
: APPLICANT: Rosenblum, Barnett B.
: TITLE OF INVENTION: Methods and Compositions for Synthesis of Labeled
: FILE REFERENCE: 4407
: CURRENT APPLICATION NUMBER: US/10/010,717
: CURRENT FILING DATE: 2001-11-07
: PRIOR APPLICATION NUMBER: 09/256,440
: PRIOR FILING DATE: 1999 02-22
: NUMBER OF SEQ ID NOS: 8
: SOFTWARE: FastSeq for Windows Version 4.0
: SEQ ID NO 4
: LENGTH: 26
: TYPE: DNA
: ORGANISM: Unknown
: FEATURE:
: OTHER INFORMATION: Test Sequence
US 10 010 717 4

```

```

Query Match
Best Local Similarity 74.0%; Score 14.8; DB 9; Length 26;
Matches 16; Conservation 0; Mismatches 2; Indels 0; Gaps 0;

```

```

QY 2 AGGATGGATGAGGAGGAGG 19
   ||| ||||| ||||| |||||
DB 22 AGGATGGATGAGGAGGAGG 5

```

```

RESULT 3
US 10 010 717 4/c
: Sequence 5, Application US/10010717
: Patent No. US20020165089A1
: GENERAL INFORMATION:
: APPLICANT: Vinayak, Kavi S.
: APPLICANT: Lee, Linda G.
: APPLICANT: Mollab, Khairuzzaman B.
: APPLICANT: Rosenblum, Barnett B.
: TITLE OF INVENTION: Methods and Compositions for Synthesis of Labeled
: FILE REFERENCE: 4407
: CURRENT APPLICATION NUMBER: US/10/010,717
: CURRENT FILING DATE: 2001-11-07
: PRIOR APPLICATION NUMBER: 09/256,440
: PRIOR FILING DATE: 1999 02-22
: NUMBER OF SEQ ID NOS: 8
: SOFTWARE: FastSeq for Windows Version 4.0
: SEQ ID NO 5
: LENGTH: 26
: TYPE: DNA
: ORGANISM: Unknown
: FEATURE:
: OTHER INFORMATION: Test Sequence
US 10 010 717 5

```

```

Query Match
Best Local Similarity 88.0%; Score 14.8; DB 9; Length 26;
Matches 16; Conservation 0; Mismatches 2; Indels 0; Gaps 0;

```

```

QY 2 AGGATGGATGAGGAGGAGG 19
   ||| ||||| ||||| |||||
DB 22 AGGATGGATGAGGAGGAGG 5

```

```

RESULT 4
US 09 799 160 20/c
: Sequence 20, Application US/09799160
: Patent No. US20020056296A1
: GENERAL INFORMATION:

```

1 APPLICANT: Wittwer, Carl F.  
 2 Kirio, Kirk M.  
 3 Rasmussen, Randy P.  
 4 TITLE OF INVENTION: Monitoring Hybridization During PCT  
 5 NUMBER OF SEQUENCE: 27  
 6 CORRESPONDENCE ADDRESS:  
 7 ADDRESSEE: Thorpe, No. US2002005825Health & Western, L.L.P.,  
 8 STREET: 9045 South 700 East, Suite 200  
 9 CITY: Sandy  
 10 STATE: Utah  
 11 COUNTRY: USA  
 12 ZIP: 84070  
 13  
 14 COMPUTER READABLE FORM:  
 15 MEDIUM TYPE: Diskette, 3.5 inch, 1.44 Mb storage  
 16 COMPUTER: Toshiba T2150CDS  
 17 OPERATING SYSTEM: Windows 95  
 18 SOFTWARE: Word Perfect 7.0  
 19  
 20 CURRENT APPLICATION DATA:  
 21 APPLICATION NUMBER: US/09/799,160  
 22 FILING DATE: 05-Mar-2001  
 23 CLASSIFICATION: <Unknown>  
 24  
 25 PRIOR APPLICATION DATA:  
 26 APPLICATION NUMBER: 08/869,476  
 27 FILING DATE: <Unknown>  
 28 APPLICATION NUMBER: 08/818,267  
 29 FILING DATE: 17-Mar-97  
 30  
 31 ATTORNEY/AGENT INFORMATION:  
 32 NAME: Alan J. Howarth  
 33 REGISTRATION NUMBER: 6,554  
 34 REFERENCE/DOCKET NUMBER: 8616,01P7  
 35 TELECOMMUNICATION INFORMATION:  
 36 TELEPHONE: (801)566-6633  
 37 TELEFAX: (801)566-0750  
 38  
 39 INFORMATION FOR SEQ ID NO: 20:  
 40 SEQUENCE CHARACTERISTICS:  
 41 LENGTH: 26 base pairs  
 42 TYPE: nucleic acid  
 43 STRANDEDNESS: single-stranded  
 44 TOPOLOGY: linear  
 45  
 46 SEQUENCE DESCRIPTION: SEQ ID NO: 20:  
 47  
 48 US-09-799-160-20

Query Match 74.0% Score 14.8; DB 10; Length 26;  
 Best Local Similarity 88.9% Pred. No. 1.2e+04;  
 Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 2 AGGGGGGATGGGGAGG 19  
 DB 22 AGATGGGATGGGGAGG 5

RESULT 5  
 US-09-866-471-52  
 1 Sequence 5, Application US/09845371  
 2 Publication No. US2002018474A1  
 3 GENERAL INFORMATION:  
 4 APPLICANT: DUELMANN, EUGEN  
 5 APPLICANT: BREIDENL, GERHARD  
 6 APPLICANT: WILL, DAVID W  
 7 TITLE OF INVENTION: POLYAMIDE NUCLEIC ACID DERIVATIVES, AND AGENTS AND  
 8 PROCESSES FOR PREPARING THEM  
 9 FILE REFERENCE: 02481.1743 SEQUENCE LISTING  
 10 CURRENT APPLICATION NUMBER: US/09/845,471  
 11 CURRENT FILING DATE: 2001-04-17  
 12 NUMBER OF SEQ ID NOS: 53  
 13 SOFTWARE: Patent In Ver. 2.1  
 14 SEQ ID NO 52  
 15 LENGTH: 21  
 16 TYPE: DNA  
 17 ORGANISM: Artificial Sequence  
 18 FEATURE:  
 19 OTHER INFORMATION: Description of Artificial Sequence: base sequence  
 20 OTHER INFORMATION: of PNA targeting c-mv

US-09-845-471-52

Query Match 72.0% Score 14.4; DB 9; Length 21;  
 Best Local Similarity 93.8% Pred. No. 1.7e+03;  
 Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 GAGGGGGATGGGGG 16  
 DB 5 GAGGGGGATGGGGG 20

RESULT 6  
 US-09-845-470-52  
 1 Sequence 52, Application US/09845370  
 2 Publication No. US20030022172A1  
 3 GENERAL INFORMATION:  
 4 APPLICANT: DUELMANN, EUGEN  
 5 APPLICANT: BREIDENL, GERHARD  
 6 APPLICANT: WILL, DAVID W  
 7 TITLE OF INVENTION: POLYAMIDE NUCLEIC ACID DERIVATIVES AND AGENTS AND  
 8 PROCESSES FOR PREPARING THEM  
 9 FILE REFERENCE: 02481.1742 SEQUENCE LISTING  
 10 CURRENT APPLICATION NUMBER: US/09/845,470  
 11 CURRENT FILING DATE: 2001-04-17  
 12 NUMBER OF SEQ ID NOS: 64  
 13 SOFTWARE: Patent In Ver. 2.1  
 14 SEQ ID NO 52  
 15 LENGTH: 21  
 16 TYPE: DNA  
 17 ORGANISM: Artificial Sequence  
 18 FEATURE:  
 19 OTHER INFORMATION: Description of Artificial Sequence: nucleotide  
 20 OTHER INFORMATION: base sequence of PNA derivatives that bind to  
 21 OTHER INFORMATION: viral and cellular targets  
 22  
 23 US-09-845-470-52

Query Match 72.0% Score 14.4; DB 9; Length 21;  
 Best Local Similarity 93.8% Pred. No. 1.7e+03;  
 Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 GAGGGGGATGGGGG 16  
 DB 5 GAGGGGGATGGGGG 20

RESULT 7  
 US-09-944-1388-5/c  
 1 Sequence 3, Application US/09934138B  
 2 Publication No. US2003039577A1  
 3 GENERAL INFORMATION:  
 4 APPLICANT: Cook, Phillip D.  
 5 APPLICANT: Manoharan, Muthiah  
 6 TITLE OF INVENTION: Carbamate-Derivatized Nucleosides And Oligonucleosides  
 7 FILE REFERENCE: USIS-4802  
 8 CURRENT APPLICATION NUMBER: US/09/944,148H  
 9 CURRENT FILING DATE: 2002-06-25  
 10 NUMBER OF SEQ ID NOS: 8  
 11 SOFTWARE: Patent In version 3.1  
 12 SEQ ID NO 3  
 13 LENGTH: 20  
 14 TYPE: DNA  
 15 ORGANISM: Artificial Sequence  
 16 FEATURE:  
 17 OTHER INFORMATION: Synthetic oligonucleotide Sequence

Query Match 71.0% Score 14.2; DB 9; Length 20;  
 Best Local Similarity 84.2% Pred. No. 2.1e+03;  
 Matches 16; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 2 AGGGGGATGGGGAGG 20  
 DB 20 AGGGGGATGGGGAGG 2

RESULT 8  
US 09/874 504 47  
Sequence 47, Application US/09/874 504  
Patent No. US20020177188A1  
GENERAL INFORMATION:  
APPLICANT: Chen, Jian  
APPLICANT: Fong, Sherman  
APPLICANT: Gaddard, Audrey  
APPLICANT: Gadowski, Paul L.  
APPLICANT: Grimaldi, J. Christopher  
APPLICANT: Gurney, Austin L.  
APPLICANT: Li, Banzhong  
APPLICANT: Hillan, Kenneth J.  
APPLICANT: Hymowitz, Sarah G.  
APPLICANT: Tomas, Daniel  
APPLICANT: Starovashnik, Melissa A.  
APPLICANT: Vanlaakoren, Memo  
APPLICANT: Vandoren, Richard  
APPLICANT: Watanabe, Colin K.  
APPLICANT: Williams, P. Mickey  
APPLICANT: Wood, William L.  
APPLICANT: Yansura, Daniel  
TITLE OF INVENTION: 11-17 HOMOLOGOUS POLYPEPTIDES AND THERAPEUTIC USES THEREOF  
FILE REFERENCE: P1681C1P4(US)  
CURRENT APPLICATION NUMBER: US/09/874 504  
CURRENT FILING DATE: 2001-06-05  
PRIOR APPLICATION NUMBER: US 60/253,646  
PRIOR FILING DATE: 2000-11-28  
PRIOR APPLICATION NUMBER: US 60/244,072  
PRIOR FILING DATE: 2000-10-26  
PRIOR APPLICATION NUMBER: US 60/242,847  
PRIOR FILING DATE: 2000-10-24  
PRIOR APPLICATION NUMBER: US 60/175,461  
PRIOR FILING DATE: 2000-01-11  
PRIOR APPLICATION NUMBER: US 60/191,007  
PRIOR FILING DATE: 2000-04-21  
PRIOR APPLICATION NUMBER: US 60/214,807  
PRIOR FILING DATE: 2000-06-22  
PRIOR APPLICATION NUMBER: US 60/172,096  
PRIOR FILING DATE: 1999-12-23  
PRIOR APPLICATION NUMBER: US 60/148,487  
PRIOR FILING DATE: 1999-06-09  
PRIOR APPLICATION NUMBER: US 60/144,287  
PRIOR FILING DATE: 1999-05-14  
PRIOR APPLICATION NUMBER: US 60/131,022  
PRIOR FILING DATE: 1999-04-26  
PRIOR APPLICATION NUMBER: US 60/140,242  
PRIOR FILING DATE: 1999-04-21  
PRIOR APPLICATION NUMBER: US 60/114,621  
PRIOR FILING DATE: 1998-12-23  
PRIOR APPLICATION NUMBER: US 60/085,579  
PRIOR FILING DATE: 1998-05-15  
PRIOR APPLICATION NUMBER: US 09/854,208  
PRIOR FILING DATE: 2001-05-10  
PRIOR APPLICATION NUMBER: US 09/854,280  
PRIOR FILING DATE: 2001-05-20  
PRIOR APPLICATION NUMBER: US 09/816,744  
PRIOR FILING DATE: 2001-04-22  
PRIOR APPLICATION NUMBER: US 09/747,259  
PRIOR FILING DATE: 2000-12-20  
PRIOR APPLICATION NUMBER: US 09/644,848  
PRIOR FILING DATE: 2000-08-22  
PRIOR APPLICATION NUMBER: US 09/480,142  
PRIOR FILING DATE: 1999-08-25  
PRIOR APPLICATION NUMBER: US 09/480,148  
PRIOR FILING DATE: 1999-08-25  
PRIOR APPLICATION NUMBER: US 09/411,842  
PRIOR FILING DATE: 1999-05-14  
PRIOR APPLICATION NUMBER: US PCT/US01/06120  
PRIOR FILING DATE: 2001-02-28

PRIOR APPLICATION NUMBER: US PCT/US00/43456  
PRIOR FILING DATE: 2000-12-20  
PRIOR APPLICATION NUMBER: US PCT/US00/42678  
PRIOR FILING DATE: 2000-12-01  
PRIOR APPLICATION NUMBER: US PCT/US00/40874  
PRIOR FILING DATE: 2000-11-10  
PRIOR APPLICATION NUMBER: US PCT/US00/24428  
PRIOR FILING DATE: 2000-08-24  
PRIOR APPLICATION NUMBER: US PCT/US00/19264  
PRIOR FILING DATE: 2000-06-02  
PRIOR APPLICATION NUMBER: US PCT/US00/07532  
PRIOR FILING DATE: 2000-04-21  
PRIOR APPLICATION NUMBER: US PCT/US00/06841  
PRIOR FILING DATE: 2000-04-02  
PRIOR APPLICATION NUMBER: US PCT/US00/05601  
PRIOR FILING DATE: 2000-04-01  
PRIOR APPLICATION NUMBER: US PCT/US00/04341  
PRIOR FILING DATE: 2000-02-18  
PRIOR APPLICATION NUMBER: US PCT/US99/41274  
PRIOR FILING DATE: 1999-12-30  
PRIOR APPLICATION NUMBER: US PCT/US99/10733  
PRIOR FILING DATE: 1999-05-14  
PRIOR APPLICATION NUMBER: US PCT/US99/05028  
PRIOR FILING DATE: 1999-03-08  
NUMBER OF SEQ ID NOS: 39  
SEQ ID NO: 47  
LENGTH: 40  
TYPE: DNA  
ORGANISM: Artificial Sequence  
FEATURE:  
OTHER INFORMATION: Synthetic oligonucleotide Probe  
US-09-874 504 47  
Query Match: 71.0%; Score: 14.2; DB: 9; Length: 40;  
Best Local Similarity: 84.2%; Prod. No.: 200045  
Matches: 16; Conservative: 0; Mismatches: 4; Gaps: 0;  
QY 1 GAGGGGGAAGGGGAGG 19  
11111111111111111111  
DB 16 GAGGGGGAAGGGGAGG 34  
RESULT 9  
US 10-000 157 47  
Sequence 47, Application US/10000157  
Publication No. US20020162673A1  
GENERAL INFORMATION:  
APPLICANT: Chen, Jian  
APPLICANT: Fong, Sherman  
APPLICANT: Gaddard, Audrey  
APPLICANT: Gadowski, Paul L.  
APPLICANT: Grimaldi, J. Christopher  
APPLICANT: Gurney, Austin  
APPLICANT: Li, Banzhong  
APPLICANT: Hillan, Kenneth J.  
APPLICANT: Hymowitz, Sarah  
APPLICANT: Tomas, Daniel  
APPLICANT: Starovashnik, Melissa  
APPLICANT: Vanlaakoren, Memo  
APPLICANT: Vandoren, Richard  
APPLICANT: Watanabe, Colin  
APPLICANT: Williams, P. Mickey  
APPLICANT: Wood, William  
APPLICANT: Yansura, Daniel  
TITLE OF INVENTION: 11-17 HOMOLOGOUS POLYPEPTIDES AND THERAPEUTIC USES THEREOF  
FILE REFERENCE: P1681C1P4(US)  
CURRENT APPLICATION NUMBER: US/10/000,157  
CURRENT FILING DATE: 2001-10-30  
PRIOR APPLICATION NUMBER: 60/085,579  
PRIOR FILING DATE: 1998-05-15  
PRIOR APPLICATION NUMBER: 60/114,621  
PRIOR FILING DATE: 1998-12-23



1 PRIOR APPLICATION NUMBER: 60/140232  
2 PRIOR FILING DATE: 1999-04-21  
3 PRIOR APPLICATION NUMBER: 60/141022  
4 PRIOR FILING DATE: 1999-04-26  
5 PRIOR APPLICATION NUMBER: 60/144287  
6 PRIOR FILING DATE: 1999-05-14  
7 PRIOR APPLICATION NUMBER: 60/148487  
8 PRIOR FILING DATE: 1999-06-09  
9 PRIOR APPLICATION NUMBER: 60/172096  
10 PRIOR FILING DATE: 1999-12-24  
11 PRIOR APPLICATION NUMBER: 60/175481  
12 PRIOR FILING DATE: 2000-01-11  
13 PRIOR APPLICATION NUMBER: 60/191007  
14 PRIOR FILING DATE: 2000-04-21  
15 PRIOR APPLICATION NUMBER: 60/214807  
16 PRIOR FILING DATE: 2000-06-23  
17 PRIOR APPLICATION NUMBER: 60/242837  
18 PRIOR FILING DATE: 2000-10-24  
19 PRIOR APPLICATION NUMBER: 60/244072  
20 PRIOR FILING DATE: 2000-10-26  
21 PRIOR APPLICATION NUMBER: 60/254646  
22 PRIOR FILING DATE: 2000-11-28  
23 PRIOR APPLICATION NUMBER: 09/411832  
24 PRIOR FILING DATE: 1999-05-14  
25 PRIOR APPLICATION NUMBER: 09/480138  
26 PRIOR FILING DATE: 1999-08-25  
27 PRIOR APPLICATION NUMBER: 09/480142  
28 PRIOR FILING DATE: 1999-08-25  
29 PRIOR APPLICATION NUMBER: 09/644848  
30 PRIOR FILING DATE: 2000-08-22  
31 PRIOR APPLICATION NUMBER: 09/747259  
32 PRIOR FILING DATE: 2000-12-20  
33 PRIOR APPLICATION NUMBER: 09/816744  
34 PRIOR FILING DATE: 2001-03-22  
35 PRIOR APPLICATION NUMBER: 09/854208  
36 PRIOR FILING DATE: 2001-05-10  
37 PRIOR APPLICATION NUMBER: 09/854280  
38 PRIOR FILING DATE: 2001-05-10  
39 PRIOR APPLICATION NUMBER: 09/874503  
40 PRIOR FILING DATE: 2001-06-05  
41 PRIOR APPLICATION NUMBER: 09/908827  
42 PRIOR FILING DATE: 2001-07-18  
43 PRIOR APPLICATION NUMBER: 09/918585  
44 PRIOR FILING DATE: 2001-07-30  
45 PRIOR APPLICATION NUMBER: 09/929404  
46 PRIOR FILING DATE: 2001-08-13  
47 PRIOR APPLICATION NUMBER: 09/931836  
48 PRIOR FILING DATE: 2001-08-16  
49 PRIOR APPLICATION NUMBER: PCT/US99/05028  
50 PRIOR FILING DATE: 1999-03-08  
51 PRIOR APPLICATION NUMBER: PCT/US99/10733  
52 PRIOR FILING DATE: 1999-05-14  
53 PRIOR APPLICATION NUMBER: PCT/US99/41274  
54 PRIOR FILING DATE: 1999-12-30  
55 PRIOR APPLICATION NUMBER: PCT/US00/04341  
56 PRIOR FILING DATE: 2000-02-18  
57 PRIOR APPLICATION NUMBER: PCT/US00/05601  
58 PRIOR FILING DATE: 2001-03-01  
59 PRIOR APPLICATION NUMBER: PCT/US00/05841  
60 PRIOR FILING DATE: 2000-03-02  
61 PRIOR APPLICATION NUMBER: PCT/US00/07542  
62 PRIOR FILING DATE: 2000-04-21  
63 PRIOR APPLICATION NUMBER: PCT/US00/15264  
64 PRIOR FILING DATE: 2000-06-02  
65 PRIOR APPLICATION NUMBER: PCT/US00/24328  
66 PRIOR FILING DATE: 2000-08-24  
67 PRIOR APPLICATION NUMBER: PCT/US00/30873  
68 PRIOR FILING DATE: 2000-11-10  
69 PRIOR APPLICATION NUMBER: PCT/US00/42678  
70 PRIOR FILING DATE: 2000-12-01  
71 PRIOR APPLICATION NUMBER: PCT/US00/44956  
72 PRIOR FILING DATE: 2000-12-20  
73 PRIOR APPLICATION NUMBER: PCT/US01/06520

1 PRIOR FILING DATE: 2001-02-28  
2 PRIOR APPLICATION NUMBER: PCT/US01/17800  
3 PRIOR FILING DATE: 2001-06-01  
4 PRIOR APPLICATION NUMBER: PCT/US01/19692  
5 PRIOR FILING DATE: 2001-06-20  
6 PRIOR APPLICATION NUMBER: PCT/US01/21066  
7 PRIOR FILING DATE: 2001-06-29  
8 PRIOR APPLICATION NUMBER: PCT/US01/21735  
9 PRIOR FILING DATE: 2001-07-09  
10 NUMBER OF SEQ ID NOS: 39  
11 SEQ ID NO: 37  
12 LENGTH: 40  
13 TYPE: DNA  
14 ORGANISM: Artificial Sequence  
15 FEATURE:  
16 OTHER INFORMATION: Synthetic oligonucleotide Probe  
17 US-10-000-157-37  
18  
19 Query Match 71.0% Score 14.2; DB 9; Length 40;  
20 Best Local Similarity 84.2%; Prod. No. 20-03;  
21 Matches 16; Conservative 0; Mismatches 3; Gaps 0;  
22  
23 QY 1 GAGGGGAGGAGG 19  
24 1111111111  
25 Db 16 GAGGGGAGGAGG 34  
26  
27 RESULT 10  
28 US-09-747-259-37  
29 Sequence 37, Application US/09747259  
30 Publication No. US2003008815A1  
31 GENERAL INFORMATION:  
32 APPLICANT: Genentech, Inc.  
33 APPLICANT: Ellen, Jian  
34 APPLICANT: Feltz, Ellen  
35 APPLICANT: Ford, Sherman  
36 APPLICANT: Gaddard, Audrey  
37 APPLICANT: Gadowski, Paul  
38 APPLICANT: Grimaldi, Christopher  
39 APPLICANT: Gurney, Austin  
40 APPLICANT: Li, Hanzhong  
41 APPLICANT: Hill, Kenneth  
42 APPLICANT: Tomas, Daniel  
43 APPLICANT: Vanhooker, Memo  
44 APPLICANT: Vanden, Richard  
45 APPLICANT: Watanabe, Colin  
46 APPLICANT: Williams, P. Mickey  
47 APPLICANT: Wood, William  
48 APPLICANT: Yamsura, Daniel  
49 TITLE OF INVENTION: 11-17 HOMOLOGOUS POLYPEPTIDES AND THERAPEUTIC USES THEREOF  
50 FILE REFERENCE: P18181C1P1(US)  
51 CURRENT APPLICATION NUMBER: US/09747,259  
52 CURRENT FILING DATE: 2000-12-20  
53 PRIOR APPLICATION NUMBER: US 09/411,832  
54 PRIOR FILING DATE: 1999-05-14  
55 PRIOR APPLICATION NUMBER: US 60/172,096  
56 PRIOR FILING DATE: 1999-12-23  
57 PRIOR APPLICATION NUMBER: PCT/US99/41274  
58 PRIOR FILING DATE: 1999-12-30  
59 PRIOR APPLICATION NUMBER: US 60/175,481  
60 PRIOR FILING DATE: 2000-01-11  
61 PRIOR APPLICATION NUMBER: PCT/US00/04341  
62 PRIOR FILING DATE: 2000-02-18  
63 PRIOR APPLICATION NUMBER: PCT/US00/05841  
64 PRIOR FILING DATE: 2000-03-02  
65 PRIOR APPLICATION NUMBER: US 60/191,007  
66 PRIOR FILING DATE: 2000-03-21  
67 PRIOR APPLICATION NUMBER: PCT/US00/07542  
68 PRIOR FILING DATE: 2000-04-21  
69 PRIOR APPLICATION NUMBER: PCT/US00/15264  
70 PRIOR FILING DATE: 2000-06-02  
71 PRIOR APPLICATION NUMBER: US 60/213,087  
72 PRIOR FILING DATE: 2000-06-22

```

: PRIOR APPLICATION NUMBER: US 09/944,848
: PRIOR FILING DATE: 2000-08-22
: PRIOR APPLICATION NUMBER: PCT/US00/24328
: PRIOR FILING DATE: 2000-08-24
: PRIOR APPLICATION NUMBER: US 60/242,837
: PRIOR FILING DATE: 2000-10-24
: PRIOR APPLICATION NUMBER: PCT/US00/40874
: PRIOR FILING DATE: 2000-11-10
: PRIOR APPLICATION NUMBER: US 60/253,646
: PRIOR FILING DATE: 2000-11-28
: PRIOR APPLICATION NUMBER: PCT/US00/42678
: NUMBER OF SEQ ID NOS: 49
: SEQ ID NO 37
: LENGTH: 40
: TYPE: DNA
: ORGANISM: Artificial Sequence
: FEATURE:
: OTHER INFORMATION: Synthetic oligonucleotide Probe
US 09 747 259 47

```

```

Query Match          71.0%   Score 14.2; DB 9; Length 40;
Best Local Similarity 84.2%   Pred. No. 26.0%
Matches 16; Conservative 5; Mismatches 0; Gaps 0;

```

```

QY 1 GAGGAGATGGGAGG 19
    ||| ||| ||| ||| |||
DB 16 GAGGAGAGAGGAGG 44

```

## RESULT 11

```

US 09-765-081 279/c
: Sequence 279, Application US/09765081
: Patent No. US20020047508A1
: GENERAL INFORMATION:
: APPLICANT: Carqill, Michele
: APPLICANT: Ireland, James S.
: TITLE OF INVENTION: HUMAN SINGLE NUCLEOTIDE POLYMORPHISMS
: FILE REFERENCE: 2825,2008-001
: CURRENT APPLICATION NUMBER: US/09765,081
: CURRENT FILING DATE: 2001-01-18
: PRIOR APPLICATION NUMBER: US 60/176,861
: PRIOR FILING DATE: 2000-01-19
: NUMBER OF SEQ ID NOS: 461
: SOFTWARE: FastSeq for Windows Version 4.0
: SEQ ID NO 279
: LENGTH: 21
: TYPE: DNA
: ORGANISM: Homo sapiens
US 09-765 081 279

```

```

Query Match          70.0%   Score 14; DB 10; Length 21;
Best Local Similarity 87.5%   Pred. No. 25.0%
Matches 14; Conservative 1; Mismatches 0; Gaps 0;

```

```

QY 3 GAGGAGATGGGAGG 18
    ||| ||| ||| |||
DB 21 GAGGAGATGGGAGG 6

```

## RESULT 12

```

US 10 131 864 4/c
: Sequence 4, Application US/10131864
: Patent No. US20020164820A1
: GENERAL INFORMATION:
: APPLICANT: Brown, James F.
: TITLE OF INVENTION: Method of Sampling, Amplifying and Quantifying Nucleic
: TITLE OF INVENTION: Polymerase Chain Reaction Assembly Having Nanoliter-Sized Sample
: FILE REFERENCE: 4654 002-02
: CURRENT APPLICATION NUMBER: US/10/131,864
: CURRENT FILING DATE: 2002-04-25

```

```

: PRIOR APPLICATION NUMBER: 09/566,714
: PRIOR FILING DATE: 2000-05-02
: PRIOR APPLICATION NUMBER: 09/048,262
: PRIOR FILING DATE: 1997-04-17
: NUMBER OF SEQ ID NOS: 3
: SOFTWARE: Patent In Version 3.1
: SEQ ID NO 3
: LENGTH: 25
: TYPE: DNA
: ORGANISM: Artificial Sequence
: FEATURE:
: OTHER INFORMATION: Dual Fluor Labeled Probe.
: NAME/KEY: (1)-(1)
: LOCATION: (1)-(1)
: OTHER INFORMATION: N here denotes an A nucleotide that is labeled with 6 carboxyfl
: OTHER INFORMATION: methylothiodamine.
: FEATURE:
: NAME/KEY: (7)-(7)
: LOCATION: (7)-(7)
: OTHER INFORMATION: N here denotes an A nucleotide that is labeled with 6 carboxyfl
: OTHER INFORMATION: methylothiodamine.
US 10-131 864 3

```

```

Query Match          66.0%   Score 13.2; DB 9; Length 25;
Best Local Similarity 78.0%   Pred. No. 6.0%
Matches 15; Conservative 0; Mismatches 4; Gaps 0;

```

```

QY 2 AGGAGGATGGGAGG 20
    ||| ||| ||| |||
DB 21 AGGAGGATGGGAGG 3

```

## RESULT 13

```

US 09-996-263 20/c
: Sequence 20, Application US/09996263
: Publication No. US20030004325A1
: GENERAL INFORMATION:
: APPLICANT: Phillip Dan Cook
: Andrew Kawasaki
: TITLE OF INVENTION: Sugar Modified oligonucleotides
: NUMBER OF SEQUENCES: 47
: CORRESPONDENCE ADDRESS:
: ADDRESSEE: Woodcock Washburn Kurtz MacKiewicz and No. 0520030004325A1
: STREET: One Liberty Place 46th Floor
: CITY: Philadelphia
: STATE: PA
: COUNTRY: U.S.A.
: ZIP: 19104
: COMPUTER READABLE FORM:
: MEDIUM TYPE: 3.5 inch disk, 720 Kb
: COMPUTER: IBM PC compatible
: OPERATING SYSTEM: PC DOS/MS DOS
: SOFTWARE: Wordperfect 5.1
: CURRENT APPLICATION DATA:
: APPLICATION NUMBER: US/09/996,263
: FILING DATE: 28 Nov. US20030004325A1 2001
: CLASSIFICATION: Unknown
: PRIOR APPLICATION DATA:
: APPLICATION NUMBER: 08/471,974
: FILING DATE: Unknown
: AUTHORITY/AGENT INFORMATION:
: NAME: Joseph Tacci
: REGISTRATION NUMBER: 33,407
: REFERENCE/DOCET NUMBER: US 2005
: TELECOMMUNICATION INFORMATION:
: TELEPHONE: 215 568 4100
: TELEFAX: 215 568 4100
: INFORMATION FOR SEQ ID NO: 20;
: SEQUENCE CHARACTERISTICS:
: LENGTH: 20 bases
: TYPE: nucleic acid
: STRANDEDNESS: single

```

TOPOLGY: linear  
ANTI-SENSE: yes  
SEQUENCE DESCRIPTION: SEQ ID NO: 20;  
US-09-996-264-20

Query Match 63.0%; Score 12.6; DB 9; Length 20;  
Best Local Similarity 78.9%; Pred. No. 9.1e+04;  
Matches 15; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

QY 2 AGGGGAGGATGGGGAGGC 20  
1 11111111111111111111  
Db 20 ATGGTGGGCTGGGGGATGC 2

RESULT 14  
US-09-824-322B-141/c  
Sequence 141, Application US/09824322B  
Publication No. US20030022848A1  
GENERAL INFORMATION:  
APPLICANT: Baker, Brenda  
APPLICANT: Bennett, C. Frank  
APPLICANT: Butler, Madeline M.  
APPLICANT: Shanahan, William R.  
TITLE OF INVENTION: ANTISENSE OLIGONUCLEOTIDE MODULATION OF TUMOR NECROSIS FACTOR-ALPHA  
FILE REFERENCE: ISPH-0501  
CURRENT APPLICATION NUMBER: US/09/824, 322B  
CURRENT FILING DATE: 2001-04-02  
PRIOR APPLICATION NUMBER: US 09/313, 932  
PRIOR FILING DATE: 1999-05-18  
PRIOR APPLICATION NUMBER: US 09/166, 186  
PRIOR FILING DATE: 1998-10-05  
NUMBER OF SEQ ID NOS: 503  
SEQ ID NO 141  
LENGTH: 20  
TYPE: DNA  
ORGANISM: Artificial Sequence  
FEATURE:  
OTHER INFORMATION: Synthetic  
US-09-824-322B-141

Query Match 63.0%; Score 12.6; DB 9; Length 20;  
Best Local Similarity 78.9%; Pred. No. 9.1e+03;  
Matches 15; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

QY 2 AGGGGAGGATGGGGAGGC 20  
1 11111111111111111111  
Db 20 ATGGTGGGCTGGGGGATGC 2

RESULT 15  
US-09-888-326-779/c  
Sequence 779, Application US/09888326  
Publication No. US20030026801A1  
GENERAL INFORMATION:  
APPLICANT: Weiner, George  
APPLICANT: Hartmann, Gunter  
TITLE OF INVENTION: Methods for Enhancing Antibody-Induced  
TITLE OF INVENTION: Cell Lysis and Treating Cancer  
FILE REFERENCE: C1049/7052 (AWS)  
CURRENT APPLICATION NUMBER: US/09/888, 426  
CURRENT FILING DATE: 2001-06-22  
PRIOR APPLICATION NUMBER: US 60/213, 446  
PRIOR FILING DATE: 2000-06-22  
NUMBER OF SEQ ID NOS: 848  
SOFTWARE: FastSeq for Windows Version 3.0  
SEQ ID NO 779  
LENGTH: 20  
TYPE: DNA  
ORGANISM: Artificial Sequence  
FEATURE:  
OTHER INFORMATION: Synthetic oligonucleotide  
NAME/KEY: misc\_feature

LOCATION: (0)...(0)  
OTHER INFORMATION: phosphorothioate backbone  
US-09-888-326-779

Query Match 63.0%; Score 12.6; DB 9; Length 20;  
Best Local Similarity 78.9%; Pred. No. 9.1e+03;  
Matches 15; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

QY 2 AGGGGAGGATGGGGAGGC 20  
1 11111111111111111111  
Db 20 ATGGTGGGCTGGGGGATGC 2

RESULT 16  
US-09-934-138B-4/c  
Sequence 4, Application US/09934138B  
Publication No. US20030039977A1  
GENERAL INFORMATION:  
APPLICANT: Cook, Phillip D.  
APPLICANT: Manoharan, Muthiah  
TITLE OF INVENTION: Carbamate-derivatized Nucleosides And Oligonucleosides  
FILE REFERENCE: ISIS-4802  
CURRENT APPLICATION NUMBER: US/09/934, 138B  
CURRENT FILING DATE: 2002-06-25  
NUMBER OF SEQ ID NOS: 8  
SOFTWARE: Patent in version 3.1  
SEQ ID NO 4  
LENGTH: 20  
TYPE: DNA  
ORGANISM: Artificial Sequence  
FEATURE:  
OTHER INFORMATION: Synthetic oligonucleotide Sequence  
US-09-934-138B-4

Query Match 63.0%; Score 12.6; DB 9; Length 20;  
Best Local Similarity 78.9%; Pred. No. 9.1e+03;  
Matches 15; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

QY 2 AGGGGAGGATGGGGAGGC 20  
1 11111111111111111111  
Db 20 ATGGTGGGCTGGGGGATGC 2

RESULT 17  
US-09-853-688-11  
Sequence 11, Application US/09853688  
Patent No. US20020081605A1  
GENERAL INFORMATION:  
APPLICANT: Cooper, David N.  
APPLICANT: PROWTER, ANNIE M.  
APPLICANT: GREGORY, JOHN  
APPLICANT: MILLAR, DAVID S.  
TITLE OF INVENTION: METHOD FOR DETECTING GROWTH HORMONE VARIATIONS IN  
FILE REFERENCE: WPM78  
CURRENT APPLICATION NUMBER: US/09/853,688  
CURRENT FILING DATE: 2001-05-14  
NUMBER OF SEQ ID NOS: 66  
SOFTWARE: Patent in Ver. 2.1  
SEQ ID NO 11  
LENGTH: 38  
TYPE: DNA  
ORGANISM: Homo sapiens  
US-09-853-688-11

Query Match 63.0%; Score 12.6; DB 10; Length 38;  
Best Local Similarity 78.9%; Pred. No. 8.9e+03;  
Matches 15; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

QY 2 AGGGGAGGATGGGGAGGC 20  
1 11111111111111111111  
Db 5 AGGGGAGGATGGGGGATGC 23

## RESULT 18

US-09-920-300A 1257/c  
 ? Sequence 1257, Application US/09420300A  
 ? Patent No. US20020146728A1  
 ? GENERAL INFORMATION:  
 ? APPLICANT: King, Gordon E.  
 ? APPLICANT: Meadher, Madeline Joy  
 ? APPLICANT: Xu, Jiaqun  
 ? APPLICANT: Sociest, Heather  
 ? TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY  
 ? TITLE OF INVENTION: AND DIAGNOSIS OF COLON CANCER  
 ? FILE REFERENCE: 210121.547  
 ? CURRENT APPLICATION NUMBER: US/09/920, 300A  
 ? CURRENT FILING DATE: 2001-07-31  
 ? NUMBER OF SEQ ID NOS: 1789  
 ? SOFTWARE: FastSeq for Windows Version 4.0  
 ? SEQ ID NO 1257  
 ? LENGTH: 50  
 ? TYPE: DNA  
 ? ORGANISM: Homo sapiens  
 US-09-920-300A 1257

Query Match  
 Best Local Similarity 63.0%; Score 12.6; 18 10; Length 50;  
 Matches 15; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

QY 1 GAGGGGAGATAGGGAGG 19

DB 45 GAGGAGGATAGGGAGG 17

## RESULT 19

US-10-033-528 1257/c  
 ? Sequence 1257, Application US/10033528  
 ? Patent No. US20020141971A1  
 ? GENERAL INFORMATION:  
 ? APPLICANT: King, Gordon E.  
 ? APPLICANT: Meadher, Madeline Joy  
 ? APPLICANT: Xu, Jiaqun  
 ? APPLICANT: Sociest, Heather  
 ? TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY  
 ? TITLE OF INVENTION: AND DIAGNOSIS OF COLON CANCER  
 ? FILE REFERENCE: 210121.547c1  
 ? CURRENT APPLICATION NUMBER: US/10/033,528  
 ? CURRENT FILING DATE: 2001-12-26  
 ? NUMBER OF SEQ ID NOS: 1846  
 ? SOFTWARE: FastSeq for Windows Version 4.0  
 ? SEQ ID NO 1257  
 ? LENGTH: 50  
 ? TYPE: DNA  
 ? ORGANISM: Homo sapiens  
 US-10-033-528 1257

Query Match  
 Best Local Similarity 63.0%; Score 12.6; 18 12; Length 50;  
 Matches 15; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

QY 1 GAGGGGAGATAGGGAGG 19

DB 45 GAGGAGGATAGGGAGG 17

## RESULT 20

US-09-935-464 8  
 ? Sequence 8, Application US/09935464  
 ? Patent No. US2003002715A1  
 ? GENERAL INFORMATION:  
 ? APPLICANT: Meyer, Joanne  
 ? APPLICANT: Barrington Martin, Rory  
 ? APPLICANT: Parker, Alexander  
 ? TITLE OF INVENTION: METHODS AND COMPOSITIONS FOR DIAGNOSING AND TREATING NEUROPSYCHIA  
 ? TITLE OF INVENTION: DISORDERS SUCH AS SCHIZOPHRENIA

? FILE REFERENCE: 3322/18/02 031  
 ? CURRENT APPLICATION NUMBER: US/09/935, 464  
 ? CURRENT FILING DATE: 2001-08-23  
 ? PRIOR APPLICATION NUMBER: US-09/757, 400  
 ? PRIOR FILING DATE: 2001-01-09  
 ? NUMBER OF SEQ ID NOS: 90  
 ? SOFTWARE: Patent In Version 4.0  
 ? SEQ ID NO 8  
 ? LENGTH: 20  
 ? TYPE: DNA  
 ? ORGANISM: Artificial Sequence  
 ? FEATURE:  
 ? OTHER INFORMATION: DNA primer  
 US-09-935-464-8

Query Match  
 Best Local Similarity 61.0%; Score 12.2; 18 9; Length 20;  
 Matches 14; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 2 AGGGGAGATAGGGAGG 18

DB 4 AGGGGAGATAGGGAGG 20

## RESULT 21

US-09-858-994 4  
 ? Sequence 4, Application US/09858994  
 ? Patent No. US20020051996A1  
 ? GENERAL INFORMATION:  
 ? APPLICANT: EBERSOLE, RICHARD C.  
 ? APPLICANT: HENDRICKSON, EMMIN R.  
 ? APPLICANT: MICHAEL, PERRY P.  
 ? APPLICANT: BAEZ, LUIS  
 ? APPLICANT: NEELAVANKAN, NHEL  
 ? TITLE OF INVENTION: A METHOD FOR THE DETECTION OF AN ANALYTE BY MEANS OF A  
 ? FILE REFERENCE: 211252 US NA  
 ? CURRENT APPLICATION NUMBER: US/09/858, 994  
 ? CURRENT FILING DATE: 2001-05-16  
 ? PRIOR APPLICATION NUMBER: 60/211,293  
 ? PRIOR FILING DATE: 2000-06-13  
 ? NUMBER OF SEQ ID NOS: 13  
 ? SOFTWARE: Microsoft Office 97  
 ? SEQ ID NO 4  
 ? LENGTH: 20  
 ? TYPE: DNA  
 ? ORGANISM: Artificial Sequence  
 ? FEATURE:  
 ? OTHER INFORMATION: Description of Artificial Sequence: primer  
 US-09-858-994 4

Query Match  
 Best Local Similarity 61.0%; Score 12.2; 18 10; Length 20;  
 Matches 14; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 3 GGGGAGATAGGGAGG 19

DB 3 GGGGAGATAGGGAGG 19

## RESULT 22

US-09-795-904A 10/c  
 ? Sequence 10, Application US/09795904A  
 ? Patent No. US2002016490A1  
 ? GENERAL INFORMATION:  
 ? APPLICANT: Lind, Jordan J.N.  
 ? APPLICANT: Liu, Xinhai  
 ? APPLICANT: Koelsch, Gerald  
 ? TITLE OF INVENTION: Catalytically Active Recombinant Monoclonal Antibodies  
 ? TITLE OF INVENTION: of Use thereof  
 ? FILE REFERENCE: 0867 179  
 ? CURRENT APPLICATION NUMBER: US/09/795, 904A  
 ? CURRENT FILING DATE: 2001-02-28

; PRIOR APPLICATION NUMBER: 09/604,608  
 ; PRIOR FILING DATE: 2000-06-27  
 ; PRIOR APPLICATION NUMBER: 60/168,060  
 ; PRIOR FILING DATE: 1999-11-30  
 ; PRIOR APPLICATION NUMBER: 60/177,836  
 ; PRIOR FILING DATE: 2000-01-25  
 ; PRIOR APPLICATION NUMBER: 60/178,368  
 ; PRIOR FILING DATE: 2000-01-27  
 ; PRIOR APPLICATION NUMBER: 60/210,292  
 ; PRIOR FILING DATE: 2000-06-08  
 ; NUMBER OF SEQ ID NOS: 31  
 ; SOFTWARE: Patent In Ver. 2.1  
 ; SEQ ID NO 10  
 ; LENGTH: 28  
 ; TYPE: DNA  
 ; ORGANISM: Artificial Sequence  
 ; FEATURE:  
 ; OTHER INFORMATION: Description of Artificial Sequence: Primer  
 US-09-795-904A-10

Query Match 61.0% Score 12.2; DB 9; Length 28;  
 Best Local Similarity 82.4% Prod. No. 1,30-04;  
 Matches 14; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 4 GGAGGATGGGAGGC 20  
 11 11111111 11  
 DB 22 GGAGGATGGGAGGC 6

RESULT 24  
 US-09-795-904A-11  
 ; Sequence 11, Application US/09795904A  
 ; Patent No. US20020164760A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Land, Jordan J.N.  
 ; APPLICANT: Lin, Xinni  
 ; APPLICANT: Koelsch, Gerald  
 ; TITLE OF INVENTION: Catalytically Active Recombinant Memapsin and Methods  
 ; FILE REFERENCE: OMRF 179  
 ; CURRENT APPLICATION NUMBER: US/09795,904A  
 ; CURRENT FILING DATE: 2001-02-28  
 ; PRIOR APPLICATION NUMBER: 09/604,608  
 ; PRIOR FILING DATE: 2000-06-27  
 ; PRIOR APPLICATION NUMBER: 60/168,060  
 ; PRIOR FILING DATE: 1999-11-30  
 ; PRIOR APPLICATION NUMBER: 60/177,836  
 ; PRIOR FILING DATE: 2000-01-25  
 ; PRIOR APPLICATION NUMBER: 60/178,368  
 ; PRIOR FILING DATE: 2000-01-27  
 ; PRIOR APPLICATION NUMBER: 60/210,292  
 ; PRIOR FILING DATE: 2000-06-08  
 ; NUMBER OF SEQ ID NOS: 31  
 ; SOFTWARE: Patent In Ver. 2.1  
 ; SEQ ID NO 11  
 ; LENGTH: 28  
 ; TYPE: DNA  
 ; ORGANISM: Artificial Sequence  
 ; FEATURE:  
 ; OTHER INFORMATION: Description of Artificial Sequence: Primer  
 US-09-795-904A-11

Query Match 61.0% Score 12.2; DB 9; Length 28;  
 Best Local Similarity 82.4% Prod. No. 1,30-04;  
 Matches 14; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 4 GGAGGATGGGAGGC 20  
 11 11111111 11  
 DB 7 GGAGGATGGGAGGC 23

RESULT 24  
 US-09-795-904-10/c

; Sequence 10, Application US/09796264  
 ; Patent No. US20020049403A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Land, Jordan J.N.  
 ; APPLICANT: Lin, Xinni  
 ; APPLICANT: Koelsch, Gerald  
 ; TITLE OF INVENTION: Catalytically Active Recombinant Memapsin and Methods  
 ; FILE REFERENCE: OMRF 179  
 ; CURRENT APPLICATION NUMBER: US/09796,264  
 ; CURRENT FILING DATE: 2001-02-28  
 ; PRIOR APPLICATION NUMBER: 09/604,608  
 ; PRIOR FILING DATE: 2000-06-27  
 ; PRIOR APPLICATION NUMBER: 60/168,060  
 ; PRIOR FILING DATE: 1999-11-30  
 ; PRIOR APPLICATION NUMBER: 60/177,836  
 ; PRIOR FILING DATE: 2000-01-25  
 ; PRIOR APPLICATION NUMBER: 60/178,368  
 ; PRIOR FILING DATE: 2000-01-27  
 ; PRIOR APPLICATION NUMBER: 60/210,292  
 ; PRIOR FILING DATE: 2000-06-08  
 ; NUMBER OF SEQ ID NOS: 31  
 ; SOFTWARE: Patent In Ver. 2.1  
 ; SEQ ID NO 10  
 ; LENGTH: 28  
 ; TYPE: DNA  
 ; ORGANISM: Artificial Sequence  
 ; FEATURE:  
 ; OTHER INFORMATION: Description of Artificial Sequence: Primer  
 US-09-796-264-10

Query Match 61.0% Score 12.2; DB 10; Length 28;  
 Best Local Similarity 82.4% Prod. No. 1,30-04;  
 Matches 14; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 4 GGAGGATGGGAGGC 20  
 11 11111111 11  
 DB 22 GGAGGATGGGAGGC 6

RESULT 25  
 US-09-796-264-11  
 ; Sequence 11, Application US/09796264  
 ; Patent No. US20020049403A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Land, Jordan J.N.  
 ; APPLICANT: Lin, Xinni  
 ; APPLICANT: Koelsch, Gerald  
 ; TITLE OF INVENTION: Catalytically Active Recombinant Memapsin and Methods  
 ; FILE REFERENCE: OMRF 179  
 ; CURRENT APPLICATION NUMBER: US/09796,264  
 ; CURRENT FILING DATE: 2001-02-28  
 ; PRIOR APPLICATION NUMBER: 09/604,608  
 ; PRIOR FILING DATE: 2000-06-27  
 ; PRIOR APPLICATION NUMBER: 60/168,060  
 ; PRIOR FILING DATE: 1999-11-30  
 ; PRIOR APPLICATION NUMBER: 60/177,836  
 ; PRIOR FILING DATE: 2000-01-25  
 ; PRIOR APPLICATION NUMBER: 60/178,368  
 ; PRIOR FILING DATE: 2000-01-27  
 ; PRIOR APPLICATION NUMBER: 60/210,292  
 ; PRIOR FILING DATE: 2000-06-08  
 ; NUMBER OF SEQ ID NOS: 31  
 ; SOFTWARE: Patent In Ver. 2.1  
 ; SEQ ID NO 11  
 ; LENGTH: 28  
 ; TYPE: DNA  
 ; ORGANISM: Artificial Sequence  
 ; FEATURE:  
 ; OTHER INFORMATION: Description of Artificial Sequence: Primer  
 US-09-796-264-11

Query Match: 61.0%; Score 12.2; DR 10; Length 28;  
Best Local Similarity 82.4%; Pred. No. 1.6e+04;  
Matches 14; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 4 GGAGGATGGGAGGC 20  
DB 1111111111111111

DB 7 GGAGGATGGGAGGC 23

Search Completed: March 18, 2003, 14:29:17  
Job Time: 45.1148 secs

OM nucleic nucleic search, using sw model

Run on: March 18, 2003, 10:53:41 : Search time 809.508 seconds  
(without alignments)  
400.132 Million cell updates/sec

Title: OS-09-900-115-1

Perfect score: 20

Sequence: 1 aaaaacacataggaagaa 20

Scoring table: IDENTITY\_NUC

Gapop 10.0, Gapext 1.0

Searched: 16154066 seqs, 8097743376 residues

Total number of hits satisfying chosen parameters: 102860

Minimum DB seq length: 0

Maximum DB seq length: 50

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 1000 summaries

Database :

EST:\*

1: em\_estba:\*

2: em\_estbam:\*

3: em\_estin:\*

4: em\_estnu:\*

5: em\_estov:\*

6: em\_estpl:\*

7: em\_estro:\*

8: em\_hic:\*

9: qb\_est1:\*

10: qb\_est2:\*

11: qb\_hic:\*

12: qb\_est3:\*

13: qb\_est4:\*

14: qb\_est5:\*

15: em\_estfun:\*

16: em\_estom:\*

17: qb\_qss:\*

18: em\_qss\_hum:\*

19: em\_qss\_inv:\*

20: em\_qss\_pla:\*

21: em\_qss\_vrt:\*

22: em\_qss\_fun:\*

23: em\_qss\_mam:\*

24: em\_qss\_mus:\*

25: em\_qss\_other:\*

26: em\_qss\_pro:\*

27: em\_qss\_red:\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

# SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	14.4	72.0	41	13	R1561395
2	14.4	72.0	43	9	A1098967
3	13.8	69.0	43	9	A1423979
4	13.6	68.0	40	9	A1089757
5	13.4	67.0	49	14	H84362
6	13.2	66.0	41	9	AAR78818

BE899162	601691959	12	12	BE899162
AZ8002167	280061A07	20	17	AZ8002167
AZ4455567	180275517	27	17	AZ4455567
AZ445529	180218004	29	17	AZ445529
A1581293	1a100041.x	16	9	A1581293
A1644703	A1644703	50	9	A1644703
AZ960578	280243220	21	17	AZ960578
A1971899	wv291041.x	25	9	A1971899
AZ588957	180371808	30	17	AZ588957
AZ449948	180371811	32	17	AZ449948
RE184963	601844455	34	12	RE184963
AZ970687	280244124	36	17	AZ970687
AZ871856	280184024	37	17	AZ871856
AZ500472	180348M11	48	17	AZ500472
AZ588332	180348M11	49	17	AZ588332
A155828	90022005.x	43	9	A155828
AZ848760	280149324	44	17	AZ848760
AZ963145	280232F08	48	17	AZ963145
A1018702	ov63q01.s	49	9	A1018702
A104960	AU104960	50	9	A104960
A104022	AU104022	50	9	A104022
AZ853478	280156M11	50	17	AZ853478
AZ603284	180422E01	25	17	AZ603284
AZ976285	280251H09	30	17	AZ976285
AA994152	ot77E05.s	31	9	AA994152
AZ805050	280066F18	32	17	AZ805050
AZ616370	180446H11	35	17	AZ616370
AZ612638	180449F02	41	17	AZ612638
RE620432	1007109D1	47	17	RE620432
AZ585617	180490123	24	17	AZ585617
AZ317334	180046110	35	17	AZ317334
B1668257	604295613	42	13	B1668257
A1753618	Arabidops	45	17	A1753618
A1701058	wc78c05.x	46	9	A1701058
AA973215	ou93409.s	49	9	AA973215
A1472245	t180d10.x	49	9	A1472245
A1597951	t80d06.x	49	9	A1597951
AU104166	AU104166	50	9	AU104166
AU104501	AU104501	50	9	AU104501
AU105453	AU105453	50	9	AU105453
AU105456	AU105456	50	9	AU105456
AU106349	AU106349	50	9	AU106349
AU106340	AU106340	50	9	AU106340
AU107435	AU107435	50	9	AU107435
AU107436	AU107436	50	9	AU107436
AU107553	AU107553	50	9	AU107553
AU107554	AU107554	50	9	AU107554
AU107555	AU107555	50	9	AU107555
A1081705	ow81d01.s	25	9	A1081705
AZ774118	280003K08	25	17	AZ774118
AZ992212	280276H15	29	17	AZ992212
A1560486	t113d11.x	34	9	A1560486
RE6297419	602606004	49	12	RE6297419
A1367341	qwl7d07.x	40	9	A1367341
AZ957033	280224F18	44	17	AZ957033
B6169090	602320525	47	12	B6169090
AU107437	AU107437	50	9	AU107437
AU107863	AU107863	50	9	AU107863
AA953971	ow88d01.s	19	9	AA953971
A1584018	t12d10.x	19	9	A1584018
AZ346745	180082B09	20	17	AZ346745
AZ391369	180154K24	25	17	AZ391369
AZ630179	180454B16	27	17	AZ630179
AZ363489	180109106	28	17	AZ363489
AZ843789	280142L15	28	17	AZ843789
AZ319940	180039F13	29	17	AZ319940
AZ595520	180408M09	29	17	AZ595520
A1674855	wc77d12.x	31	9	A1674855
AZ368771	180119F01	31	17	AZ368771
AZ809474	280074005	32	17	AZ809474
AZ380833	180146021	33	17	AZ380833
AZ627977	180476104	33	17	AZ627977
AZ769247	180569J10	33	17	AZ769247





226	11	55.0	11	AZ579580	1M0467M15	c 299	11	55.0	44	9	A1174097
227	11	55.0	11	AZ652279	1M0525K06	c 300	11	55.0	44	9	A1814142
228	11	55.0	44	AZ682590	2M0101E23	c 301	11	55.0	44	17	AZ345493
229	11	55.0	44	AZ829582	2M0107P20	c 302	11	55.0	44	17	AZ407933
230	11	55.0	44	A1539250	1M04710.X	c 303	11	55.0	44	17	AZ488464
231	11	55.0	44	A1628300	1M07604.X	c 304	11	55.0	44	17	AZ666812
232	11	55.0	44	AZ377095	1M0141G14	c 305	11	55.0	44	17	AZ764507
233	11	55.0	34	AZ625604	1M0465D16	c 306	11	55.0	44	17	AZ820833
234	11	55.0	34	AZ776846	2M0010A20	c 307	11	55.0	44	17	AZ864816
235	11	55.0	34	AZ782546	2M0023E05	c 308	11	55.0	44	12	B6739910
236	11	55.0	34	AL759480	Arabidops	c 309	11	55.0	44	17	AZ486433
237	11	55.0	34	AL759611	Arabidops	c 310	11	55.0	44	17	AZ860493
238	11	55.0	35	AZ317100	1M0035E01	c 311	11	55.0	45	12	B6772081
239	11	55.0	45	AZ421115	1M0041H02	c 312	11	55.0	45	17	AZ331526
240	11	55.0	45	AZ389253	1M0149K07	c 313	11	55.0	45	17	AZ331900
241	11	55.0	35	AZ588848	1M037M24	c 314	11	55.0	45	17	AZ375586
242	11	55.0	35	AZ636745	1M0455F14	c 315	11	55.0	45	17	AZ442112
243	11	55.0	35	AZ807171	2M0069H18	c 316	11	55.0	45	17	AZ473613
244	11	55.0	35	AZ831940	2M0111021	c 317	11	55.0	45	17	AZ656960
245	11	55.0	35	AZ858898	2M0164H14	c 318	11	55.0	45	17	AZ776609
246	11	55.0	36	AZ462645	1M0269M12	c 319	11	55.0	45	17	AZ952610
247	11	55.0	36	AZ627849	1M0474113	c 320	11	55.0	45	17	AL763837
248	11	55.0	36	AZ629871	1M0483E08	c 321	11	55.0	46	9	AA737998
249	11	55.0	36	AZ643259	1M0506G06	c 322	11	55.0	46	9	AA808111
250	11	55.0	46	AZ764529	1M0560F17	c 323	11	55.0	46	9	AA144652
251	11	55.0	46	AZ766476	1M0564P01	c 324	11	55.0	46	9	A1591058
252	11	55.0	46	AZ777125	2M0011018	c 325	11	55.0	46	9	A1749908
253	11	55.0	47	A1634088	1M04106.X	c 326	11	55.0	46	17	AZ425773
254	11	55.0	47	AL673722	1M079B12.X	c 327	11	55.0	46	17	AZ777521
255	11	55.0	37	AZ692255	1M0119M13	c 328	11	55.0	46	17	AZ981881
256	11	55.0	37	AZ654776	1M0529M10	c 329	11	55.0	47	12	B6961439
257	11	55.0	37	AZ666510	1M0548M11	c 330	11	55.0	47	17	AZ769421
258	11	55.0	37	AZ771220	1M0573A15	c 331	11	55.0	47	17	AZ769994
259	11	55.0	47	AZ784558	2M0027G15	c 332	11	55.0	48	9	AL637106
260	11	55.0	37	AZ955304	2M0281004	c 333	11	55.0	48	17	AZ381877
261	11	55.0	37	DR11K9T	banio rot	c 334	11	55.0	48	17	AZ507309
262	11	55.0	38	AZ371497	1M0122019	c 335	11	55.0	48	17	AZ650456
263	11	55.0	38	AZ402445	1M0169D13	c 336	11	55.0	48	17	AZ652813
264	11	55.0	38	AZ490125	1M0322J19	c 337	11	55.0	48	17	AZ860712
265	11	55.0	38	AZ655948	1M0531N12	c 338	11	55.0	48	17	BH847205
266	11	55.0	38	AZ657455	1M0533H08	c 339	11	55.0	48	17	AL759715
267	11	55.0	38	AZ829800	2M0107I09	c 340	11	55.0	49	9	AA771845
268	11	55.0	38	AZ864944	1M0174822	c 341	11	55.0	49	9	A1246743
269	11	55.0	38	AZ949765	2M0174806	c 342	11	55.0	49	9	A1687811
270	11	55.0	39	AZ643646	1M0507A17	c 343	11	55.0	49	14	N93241
271	11	55.0	39	AZ826077	2M0101A07	c 344	11	55.0	49	17	AZ324079
272	11	55.0	39	AZ861762	2M0168J10	c 345	11	55.0	49	17	AZ503405
273	11	55.0	39	AZ949919	2M0218R16	c 346	11	55.0	49	17	AZ506149
274	11	55.0	39	AL757684	Arabidops	c 347	11	55.0	49	17	AZ987985
275	11	55.0	39	AL7604506	Arabidops	c 348	11	55.0	50	9	AU103440
276	11	55.0	39	DR11A19T	banio rot	c 349	11	55.0	50	9	AU103444
277	11	55.0	39	TA58010P	AL55603 T. brucei	c 350	11	55.0	50	9	AU103445
278	11	55.0	40	AA973420	or30005.S	c 351	11	55.0	50	9	AU103448
279	11	55.0	40	AL205954	qt26101.X	c 352	11	55.0	50	9	AU103445
280	11	55.0	40	AL1560710	td355e01.X	c 353	11	55.0	50	9	AU103446
281	11	55.0	40	AL1580193	tl193a04.X	c 354	11	55.0	50	9	AU103447
282	11	55.0	40	AL1589729	ts111103.X	c 355	11	55.0	50	9	AU103448
283	11	55.0	40	AZ465284	1M0275B10	c 356	11	55.0	50	9	AU103449
284	11	55.0	40	AZ628048	1M0476N17	c 357	11	55.0	50	9	AU103440
285	11	55.0	40	AZ645161	1M0510N19	c 358	11	55.0	50	9	AU104458
286	11	55.0	40	AZ7899767	2M0047D20	c 359	11	55.0	50	9	AU104703
287	11	55.0	40	AZ941155	2M0200I18	c 360	11	55.0	50	9	AU104704
288	11	55.0	40	AZ965178	2M0245I08	c 361	11	55.0	50	9	AU104706
289	11	55.0	41	AZ423755	1M0204C23	c 362	11	55.0	50	9	AU104707
290	11	55.0	41	AZ803708	2M0064D17	c 363	11	55.0	50	9	AU104708
291	11	55.0	41	AZ371797	2M0184C24	c 364	11	55.0	50	9	AU104710
292	11	55.0	42	AZ342776	1M0061I22	c 365	11	55.0	50	9	AU104955
293	11	55.0	42	AZ499950	1M0338I01	c 366	11	55.0	50	9	AU104956
294	11	55.0	42	AZ651412	1M0522P06	c 367	11	55.0	50	9	AU104958
295	11	55.0	42	AZ764537	1M0560M21	c 368	11	55.0	50	9	AU104961
296	11	55.0	42	AZ801055	2M0059C22	c 369	11	55.0	50	9	AU104965
297	11	55.0	42	TA63A10P	AL458255 T. brucei	c 370	11	55.0	50	9	AU105429
298	11	55.0	44	AL036497	ub65q12.T	c 371	11	55.0	50	9	AU105439



518	10.6	53.0	48	17	AL752522	Arabidops	AL752522	591	10.4	52.0	40	9	AL684941	wa74d36.x
519	10.6	53.0	49	9	AA013645	AA013645 mb12a02.r	AA013645	c 592	10.4	52.0	40	9	A1723169	1c33604.x
520	10.6	53.0	49	9	AL105252	AL105252 0272105.x	AL105252	c 593	10.4	52.0	40	12	BE78643	601466404
521	10.6	53.0	49	9	A143489	A143489 1160403.x	A143489	c 594	10.4	52.0	40	13	R1770067	603054595
522	10.6	53.0	49	9	A1499065	A1499065 1604004.x	A1499065	c 595	10.4	52.0	40	17	AZ369494	1M0120611
523	10.6	53.0	49	9	A1564984	A1564984 1c5302.x	A1564984	c 596	10.4	52.0	40	17	AZ656548	1M0532H11
524	10.6	53.0	49	9	A1611791	A1611791 1w15005.x	A1611791	c 597	10.4	52.0	42	17	AZ761622	1M0556104
525	10.6	53.0	49	9	A1687910	A1687910 1p89104.x	A1687910	c 598	10.4	52.0	42	17	AZ803885	2M0064E04
526	10.6	53.0	49	9	A1783541	A1783541 1z36111.x	A1783541	c 599	10.4	52.0	43	9	A1540852	1p08d05.x
527	10.6	53.0	49	10	AW134421	AW134421 se18q01.y	AW134421	c 600	10.4	52.0	43	9	A1584078	1s05a05.x
528	10.6	53.0	49	17	H55111	H55111 CHR220050.C	H55111	c 601	10.4	52.0	44	17	AZ342202	1M0075G11
529	10.6	53.0	49	17	AZ335579	AZ335579 1M0065A01	AZ335579	c 602	10.4	52.0	44	17	AZ984756	2M0266F21
530	10.6	53.0	49	17	AZ821504	AZ821504 2M0094K14	AZ821504	c 603	10.4	52.0	44	17	AL752549	Arabidops
531	10.6	53.0	49	17	AZ916140	AZ916140 Pst1_3_14	AZ916140	c 604	10.4	52.0	45	12	BF578678	602094151
532	10.6	53.0	50	9	AU102913	AU102913	AU102913	c 605	10.4	52.0	45	12	BF669751	602120415
533	10.6	53.0	50	9	AU103463	AU103463	AU103463	c 606	10.4	52.0	46	17	AZ632976	1M0487124
534	10.6	53.0	50	9	AU103479	AU103479	AU103479	c 607	10.4	52.0	46	9	A1355812	q194h07.x
535	10.6	53.0	50	9	AU104075	AU104075	AU104075	c 608	10.4	52.0	46	9	A1584320	1r59a06.x
536	10.6	53.0	50	9	AU104293	AU104293	AU104293	c 609	10.4	52.0	46	9	A1690387	tx87a11.x
537	10.6	53.0	50	9	AU104701	AU104701	AU104701	c 610	10.4	52.0	46	9	AA224484	zr16d11.r
538	10.6	53.0	50	9	AU105220	AU105220	AU105220	c 611	10.4	52.0	46	12	BG544334	602554564
539	10.6	53.0	50	9	AU105275	AU105275	AU105275	c 612	10.4	52.0	46	13	B1408611	602964504
540	10.6	53.0	50	9	AU105281	AU105281	AU105281	c 613	10.4	52.0	46	17	BH631760	100709200
541	10.6	53.0	50	9	AU105398	AU105398	AU105398	c 614	10.4	52.0	47	17	AZ586480	1M0392K22
542	10.6	53.0	50	9	AU106977	AU106977	AU106977	c 615	10.4	52.0	47	17	AZ859207	2M0164A14
543	10.6	53.0	50	9	AU106981	AU106981	AU106981	c 616	10.4	52.0	47	17	AZ945921	2M0207B04
544	10.6	53.0	50	9	AU106982	AU106982	AU106982	c 617	10.4	52.0	49	9	AA933146	of77a10.s
545	10.6	53.0	50	9	AU107484	AU107484	AU107484	c 618	10.4	52.0	49	9	AL208610	q945h02.x
546	10.6	53.0	50	9	AU107387	AU107387	AU107387	c 619	10.4	52.0	49	9	A1654550	1q94h05.x
547	10.6	53.0	50	9	AU107388	AU107388	AU107388	c 620	10.4	52.0	49	9	A1670105	1q94h03.x
548	10.6	53.0	50	9	AU107389	AU107389	AU107389	c 621	10.4	52.0	49	13	B1873153	601897612
549	10.6	53.0	50	9	AU107642	AU107642	AU107642	c 622	10.4	52.0	50	9	AU102455	AU102355
550	10.4	52.0	20	17	AZ321845	AZ321845 1M0042A07	AZ321845	c 623	10.4	52.0	50	9	AU102645	AU102645
551	10.4	52.0	20	17	AZ321845	AZ321845 1M0042A07	AZ321845	c 624	10.4	52.0	50	9	AU102675	AU102675
552	10.4	52.0	21	9	AU254493	AU254493	AU254493	c 625	10.4	52.0	50	9	AU102676	AU102676
553	10.4	52.0	21	17	AZ445794	AZ445794 1M0080H08	AZ445794	c 626	10.4	52.0	50	9	AU102726	AU102726
554	10.4	52.0	22	17	AZ656873	AZ656873 1M0532M09	AZ656873	c 627	10.4	52.0	50	9	AU102813	AU102813
555	10.4	52.0	23	17	AZ764532	AZ764532 1M0560M18	AZ764532	c 628	10.4	52.0	50	9	AU102949	AU102949
556	10.4	52.0	24	17	AZ656029	AZ656029 1M0531018	AZ656029	c 629	10.4	52.0	50	9	AU104281	AU104281
557	10.4	52.0	25	17	AZ796046	AZ796046 2M0051817	AZ796046	c 630	10.4	52.0	50	9	AU104282	AU104282
558	10.4	52.0	26	17	AZ767943	AZ767943 1M0567E10	AZ767943	c 631	10.4	52.0	50	9	AU104283	AU104283
559	10.4	52.0	27	17	AZ464355	AZ464355 1M0272E09	AZ464355	c 632	10.4	52.0	50	9	AU104284	AU104284
560	10.4	52.0	29	17	AZ391891	AZ391891 1M0154F14	AZ391891	c 633	10.4	52.0	50	9	AU104453	AU104453
561	10.4	52.0	29	17	AZ764536	AZ764536 1M0560A24	AZ764536	c 634	10.4	52.0	50	9	AU104454	AU104454
562	10.4	52.0	30	17	IA28A09P	IA28A09P	IA28A09P	c 635	10.4	52.0	50	9	AU104457	AU104457
563	10.4	52.0	31	9	AA992478	AA992478 0568b08.s	AA992478	c 636	10.4	52.0	50	9	AU104460	AU104460
564	10.4	52.0	31	9	A1580030	A1580030 1q45f02.x	A1580030	c 637	10.4	52.0	50	9	AU104462	AU104462
565	10.4	52.0	31	9	A1793967	A1793967 1c56q04.x	A1793967	c 638	10.4	52.0	50	9	AU104464	AU104464
566	10.4	52.0	31	17	AZ778300	AZ778300 2M0013K05	AZ778300	c 639	10.4	52.0	50	9	AU104491	AU104491
567	10.4	52.0	31	17	AZ861612	AZ861612 2M0168H16	AZ861612	c 640	10.4	52.0	50	9	AU104493	AU104493
568	10.4	52.0	41	17	TA178H08P	TA178H08P	TA178H08P	c 641	10.4	52.0	50	9	AU104496	AU104496
569	10.4	52.0	42	17	AZ764530	AZ764530 1M0560M18	AZ764530	c 642	10.4	52.0	50	9	AU104497	AU104497
570	10.4	52.0	42	17	AZ949191	AZ949191 2M0212K02	AZ949191	c 643	10.4	52.0	50	9	AU104498	AU104498
571	10.4	52.0	42	17	A1762365	A1762365 Arabidops	A1762365	c 644	10.4	52.0	50	9	AU104500	AU104500
572	10.4	52.0	43	17	AZ404047	AZ404047 1M0172A10	AZ404047	c 645	10.4	52.0	50	9	AU104502	AU104502
573	10.4	52.0	43	17	AZ806274	AZ806274 2M0068H12	AZ806274	c 646	10.4	52.0	50	9	AU104581	AU104581
574	10.4	52.0	45	12	BF161333	BF161333 601770096	BF161333	c 647	10.4	52.0	50	9	AU104697	AU104697
575	10.4	52.0	45	13	B1834797	B1834797 603902271	B1834797	c 648	10.4	52.0	50	9	AU104747	AU104747
576	10.4	52.0	36	12	BF533462	BF533462 602074140	BF533462	c 649	10.4	52.0	50	9	AU104781	AU104781
577	10.4	52.0	37	9	AA873697	AA873697 qb36a11.s	AA873697	c 650	10.4	52.0	50	9	AU104862	AU104862
578	10.4	52.0	37	9	A1528948	A1528948 ud43c10.y	A1528948	c 651	10.4	52.0	50	9	AU104864	AU104864
579	10.4	52.0	37	9	A1613293	A1613293 1y35a03.x	A1613293	c 652	10.4	52.0	50	9	AU104865	AU104865
580	10.4	52.0	37	9	A1797887	A1797887 wh78a05.x	A1797887	c 653	10.4	52.0	50	9	AU105247	AU105247
581	10.4	52.0	37	13	B1329364	B1329364 602982271	B1329364	c 654	10.4	52.0	50	9	AU105396	AU105396
582	10.4	52.0	37	13	BM597233	BM597233 5009-0-3	BM597233	c 655	10.4	52.0	50	9	AU105499	AU105499
583	10.4	52.0	37	17	AZ458403	AZ458403 1M0100M17	AZ458403	c 656	10.4	52.0	50	9	AU105400	AU105400
584	10.4	52.0	48	12	BG292849	BG292849 602489872	BG292849	c 657	10.4	52.0	50	9	AU105401	AU105401
585	10.4	52.0	48	17	AZ414682	AZ414682 1M0031B07	AZ414682	c 658	10.4	52.0	50	9	AU105402	AU105402
586	10.4	52.0	39	10	BE564864	BE564864 601443552	BE564864	c 659	10.4	52.0	50	9	AU105457	AU105457
587	10.4	52.0	39	17	AZ490993	AZ490993 1M0424M16	AZ490993	c 660	10.4	52.0	50	9	AU105766	AU105766
588	10.4	52.0	40	9	AA894396	AA894396 0185a05.s	AA894396	c 661	10.4	52.0	50	9	AU105888	AU105888
589	10.4	52.0	40	9	AI002051	AI002051 ov19103.s	AI002051	c 662	10.4	52.0	50	9	AU105975	AU105975
590	10.4	52.0	40	9	A1356141	A1356141 1y52104.x	A1356141	c 663	10.4	52.0	50	9	AU106392	AU106392

664	10.4	52.0	50	9	AU106844	AU106844	c 747	10.2	51.0	50	9	AU105542	AU105542
665	10.4	52.0	50	9	AU107155	AU107155	748	10.2	51.0	50	9	AU106100	AU106100
666	10.4	52.0	50	9	AU107246	AU107246	749	10.2	51.0	50	9	AU106401	AU106401
667	10.4	52.0	50	9	AU107638	AU107638	740	10.2	51.0	50	9	AU106924	AU106924
668	10.4	52.0	50	9	AU108047	AU108047	741	10.2	51.0	50	9	AU107844	AU107844
669	10.4	52.0	50	10	AV674139	AV674139	742	10.2	51.0	50	9	AU107845	AU107845
c 670	10.4	52.0	50	13	B1488749	B1488749	743	10.2	51.0	50	9	AU107847	AU107847
c 671	10.4	52.0	50	17	A2323941	A2323941	744	10.2	51.0	50	9	AU107849	AU107849
672	10.2	51.0	20	17	A2579495	A2579495	745	10.2	51.0	50	9	AU107840	AU107840
673	10.2	51.0	22	9	AA907872	AA907872	746	10.2	51.0	50	9	AU107841	AU107841
674	10.2	51.0	22	9	A1434548	A1434548	747	10.2	51.0	50	9	AU107842	AU107842
675	10.2	51.0	24	17	A2467278	A2467278	748	10.2	51.0	50	9	AU107845	AU107845
676	10.2	51.0	25	9	AA878841	AA878841	749	10.2	51.0	50	9	AU107847	AU107847
677	10.2	51.0	25	9	A1174382	A1174382	750	10.2	51.0	50	9	AU107848	AU107848
678	10.2	51.0	26	17	A128F12P	A128F12P	751	10.2	51.0	50	9	AU107849	AU107849
679	10.2	51.0	28	17	A2800412	A2800412	752	10.2	51.0	50	9	AU107850	AU107850
c 680	10.2	51.0	29	17	A2345862	A2345862	753	10.2	51.0	50	9	AU107851	AU107851
681	10.2	51.0	29	17	A2788256	A2788256	754	10.2	51.0	50	9	AU107852	AU107852
682	10.2	51.0	30	17	A2654406	A2654406	755	10.2	51.0	50	9	AU107853	AU107853
683	10.2	51.0	31	9	A1560711	A1560711	756	10.2	51.0	50	9	AU107854	AU107854
684	10.2	51.0	32	14	T67801	T67801	757	10.2	51.0	50	9	AU107860	AU107860
685	10.2	51.0	32	17	A2588790	A2588790	758	10.2	51.0	50	9	AU107864	AU107864
686	10.2	51.0	33	17	A2844379	A2844379	759	10.2	51.0	50	9	AU107865	AU107865
c 687	10.2	51.0	34	9	A1469585	A1469585	760	10.2	51.0	50	9	AU107866	AU107866
688	10.2	51.0	35	12	B3393308	B3393308	761	10.2	51.0	50	9	AU107867	AU107867
689	10.2	51.0	36	12	B6722046	B6722046	762	10.2	51.0	50	9	AU107876	AU107876
690	10.2	51.0	36	17	A2581836	A2581836	763	10.2	51.0	50	9	AU107878	AU107878
c 691	10.2	51.0	37	9	A1610223	A1610223	764	10.2	51.0	50	9	AU107880	AU107880
c 692	10.2	51.0	37	14	H95754	H95754	765	10.2	51.0	50	9	AU108089	AU108089
693	10.2	51.0	37	17	A2801943	A2801943	766	10.2	51.0	50	14	BQ625915	BQ625915
694	10.2	51.0	37	17	A2808191	A2808191	767	10.2	51.0	50	17	BH797430	BH797430
695	10.2	51.0	37	17	A2971569	A2971569	768	10.2	51.0	50	17	AZ328696	AZ328696
696	10.2	51.0	38	13	B1553849	B1553849	769	10.2	51.0	50	17	AZ345894	AZ345894
c 697	10.2	51.0	39	17	A2430589	A2430589	770	10.2	51.0	50	17	AZ597219	AZ597219
c 698	10.2	51.0	39	17	A2459707	A2459707	771	10.2	51.0	50	17	AZ813861	AZ813861
699	10.2	51.0	39	17	A2611736	A2611736	772	10.2	51.0	50	17	AZ949434	AZ949434
700	10.2	51.0	39	17	A2804450	A2804450	773	10.2	51.0	50	17	AZ969354	AZ969354
701	10.2	51.0	39	17	A2986277	A2986277	774	10.2	51.0	50	20	AZ659755	AZ659755
702	10.2	51.0	40	9	A1095185	A1095185	775	10.2	51.0	50	20	AZ775620	AZ775620
703	10.2	51.0	40	9	A1284271	A1284271	776	10.2	51.0	50	21	AZ481351	AZ481351
704	10.2	51.0	40	9	A1684006	A1684006	777	10.2	51.0	50	21	AZ419284	AZ419284
705	10.2	51.0	40	17	A2412114	A2412114	778	10.2	51.0	50	21	AZ819539	AZ819539
706	10.2	51.0	40	17	A2778876	A2778876	779	10.2	51.0	50	21	AZ861360	AZ861360
c 707	10.2	51.0	40	17	A2868198	A2868198	780	10.2	51.0	50	21	AZ961893	AZ961893
c 708	10.2	51.0	40	17	BH797868	BH797868	781	10.2	51.0	50	21	A437043	A437043
709	10.2	51.0	42	14	F51284	F51284	782	10.2	51.0	50	22	A1688330	A1688330
710	10.2	51.0	42	17	A0225866	A0225866	783	10.2	51.0	50	22	AZ650470	AZ650470
711	10.2	51.0	42	17	A2602471	A2602471	784	10.2	51.0	50	22	AZ974046	AZ974046
712	10.2	51.0	42	17	TA160062Q	TA160062Q	785	10.2	51.0	50	22	AZ986234	AZ986234
c 713	10.2	51.0	43	9	A1140342	A1140342	786	10.2	51.0	50	23	AZ305188	AZ305188
714	10.2	51.0	43	9	A1610262	A1610262	787	10.2	51.0	50	23	AZ806883	AZ806883
c 715	10.2	51.0	43	9	A1625345	A1625345	788	10.2	51.0	50	24	B6386948	B6386948
c 716	10.2	51.0	43	9	A1654005	A1654005	789	10.2	51.0	50	24	AZ375584	AZ375584
717	10.2	51.0	43	9	A1744270	A1744270	790	10.2	51.0	50	24	AZ642567	AZ642567
718	10.2	51.0	44	13	B1080461	B1080461	791	10.2	51.0	50	24	AZ744394	AZ744394
719	10.2	51.0	44	17	A2848941	A2848941	792	10.2	51.0	50	24	AZ845302	AZ845302
c 720	10.2	51.0	46	9	AA736376	AA736376	793	10.2	51.0	50	24	TA363E08P	TA363E08P
c 721	10.2	51.0	46	9	A1191806	A1191806	794	10.2	51.0	50	25	A1209420	A1209420
c 722	10.2	51.0	46	13	B1549257	B1549257	795	10.2	51.0	50	25	A1339004	A1339004
723	10.2	51.0	47	17	A2331661	A2331661	796	10.2	51.0	50	25	A1628239	A1628239
724	10.2	51.0	47	17	A2795054	A2795054	797	10.2	51.0	50	25	A1632358	A1632358
725	10.2	51.0	48	17	AZ400919	AZ400919	798	10.2	51.0	50	25	A1682835	A1682835
726	10.2	51.0	49	9	AA907869	AA907869	799	10.2	51.0	50	25	AZ308526	AZ308526
c 727	10.2	51.0	49	9	A1494134	A1494134	800	10.2	51.0	50	25	AZ646840	AZ646840
c 728	10.2	51.0	49	9	A1670105	A1670105	801	10.2	51.0	50	25	AZ7942789	AZ7942789
729	10.2	51.0	49	9	AA195871	AA195871	802	10.2	51.0	50	25	BH840574	BH840574
c 730	10.2	51.0	49	13	B1094744	B1094744	803	10.2	51.0	50	25	TA183602Q	TA183602Q
731	10.2	51.0	49	13	B1769683	B1769683	804	10.2	51.0	50	25	TA236H10Q	TA236H10Q
732	10.2	51.0	50	9	AU102711	AU102711	805	10.2	51.0	50	26	AZ457604	AZ457604
c 733	10.2	51.0	50	9	AU103364	AU103364	806	10.2	51.0	50	27	AZ457604	AZ457604
c 734	10.2	51.0	50	9	AU104264	AU104264	807	10.2	51.0	50	27	AZ619590	AZ619590
c 735	10.2	51.0	50	9	AU104921	AU104921	808	10.2	51.0	50	27	AZ776617	AZ776617
736	10.2	51.0	50	9	AU104957	AU104957	809	10.2	51.0	50	27	AZ999191	AZ999191

810	10	50.0	27	17	1A2B96307Q	AL486597 T. Bruce1	884	19	50.0	38	17	AZ627127	AZ627127
811	10	50.0	28	9	AL288386	AL288386 qv85e01.x	884	10	50.0	39	9	AL638827	AL638827
812	10	50.0	28	9	AL351154	AL351154 qt11q11.x	c 885	10	50.0	39	9	AL648744	AL648744
813	10	50.0	28	9	AL445347	AL445347 t119b11.x	c 886	10	50.0	39	10	AV956618	AV956618
814	10	50.0	28	9	AL544609	AL544609 tb76e03.x	c 887	10	50.0	39	12	BG112163	BG112163
815	10	50.0	28	9	AL597957	AL597957 ts04t01.x	c 888	10	50.0	39	17	AZ430589	AZ430589
816	10	50.0	28	9	AL748673	AL748673 sl60d07.y	c 889	10	50.0	39	17	AZ862168	AZ862168
817	10	50.0	28	12	BG642275	BG642275 h2 Droso	c 890	10	50.0	39	17	AZ949370	AZ949370
818	10	50.0	29	17	AZ348766	AZ348766 IM0070A03	891	10	50.0	40	9	AA972469	AA972469
819	10	50.0	29	17	AZ447339	AZ447339 IM0244105	892	10	50.0	40	9	AL155888	AL155888
820	10	50.0	29	17	AZ476559	AZ476559 IM0295C02	893	10	50.0	40	9	AL165750	AL165750
821	10	50.0	29	17	AZ820217	AZ820217 2M0032M13	894	10	50.0	40	12	BG037009	BG037009
822	10	50.0	29	17	AZ949281	AZ949281 2M0212M12	895	10	50.0	40	12	BG824661	BG824661
823	10	50.0	30	14	T97018	T97018 ye41q07.s1	896	10	50.0	40	17	AZ664837	AZ664837
824	10	50.0	30	17	AZ864315	AZ864315 2M0174P16	897	10	50.0	40	17	BH799252	BH799252
825	10	50.0	31	9	AA867755	AA867755 vx16b08.r	898	10	50.0	41	17	AZ370339	AZ370339
826	10	50.0	31	9	AA876793	AA876793 n248e12.s	899	10	50.0	41	17	AZ436472	AZ436472
827	10	50.0	31	9	AA909235	AA909235 n108a10.s	900	10	50.0	41	17	BH626532	BH626532
828	10	50.0	31	9	AL1583520	AL1583520 ts12t09.x	901	10	50.0	42	17	AZ361760	AZ361760
829	10	50.0	31	9	AL1601175	AL1601175 tr89t05.x	c 902	10	50.0	42	17	AZ487175	AZ487175
830	10	50.0	31	9	AL1608826	AL1608826 tw21h08.x	903	10	50.0	42	17	AZ427987	AZ427987
831	10	50.0	31	9	AL1620715	AL1620715 tw96b09.x	904	10	50.0	42	17	AZ481878	AZ481878
832	10	50.0	31	9	AL1628162	AL1628162 ty22c03.x	905	10	50.0	42	17	AZ937460	AZ937460
833	10	50.0	31	9	AL1654670	AL1654670 w93e05.x	906	10	50.0	42	17	BH624960	BH624960
834	10	50.0	31	9	AL1648994	AL1648994 w62d311.x	c 907	10	50.0	42	17	BH892840	BH892840
835	10	50.0	31	13	AL1105174	AL1105174 602893445	908	10	50.0	43	9	AL1445618	AL1445618
836	10	50.0	31	13	AL1601309	AL1601309 602345050	909	10	50.0	43	9	AL1613476	AL1613476
837	10	50.0	31	13	BM007283	BM007283 603615061	910	10	50.0	43	9	AA193713	AA193713
838	10	50.0	31	17	AZ341325	AZ341325 IM0074Q09	911	10	50.0	43	9	AA238745	AA238745
839	10	50.0	31	17	AZ481810	AZ481810 IM0306C21	912	10	50.0	43	17	AZ585629	AZ585629
840	10	50.0	31	17	AZ629177	AZ629177 IM0480J02	913	10	50.0	43	17	AZ771147	AZ771147
841	10	50.0	32	17	AZ334837	AZ334837 IM0064G21	914	10	50.0	44	10	AV956024	AV956024
842	10	50.0	32	17	TA379B12P	TA379B12 T. Bruce1	915	10	50.0	44	14	163878	163878
843	10	50.0	33	17	AZ776950	AZ776950 2M0011H04	916	10	50.0	44	17	AZ428538	AZ428538
844	10	50.0	33	17	TA253G03P	TA253G03 T. Bruce1	917	10	50.0	44	17	AZ413456	AZ413456
845	10	50.0	33	17	TA95A01P	TA95A01 T. Bruce1	918	10	50.0	44	17	AZ862104	AZ862104
846	10	50.0	34	17	AZ487810	AZ487810 tr09b04.s	919	10	50.0	45	10	BE132444	BE132444
847	10	50.0	34	17	AZ629177	AZ629177 IM0480J02	920	10	50.0	45	17	AZ407159	AZ407159
848	10	50.0	34	9	AA996016	AA996016 os26d10.s	921	10	50.0	45	17	AZ413281	AZ413281
849	10	50.0	34	9	AL1270065	AL1270065 tl91f01.x	922	10	50.0	46	17	AZ784517	AZ784517
850	10	50.0	34	9	AL1445113	AL1445113 tj20d05.x	c 923	10	50.0	46	9	AA080823	AA080823
851	10	50.0	34	9	AL1608946	AL1608946 tw85a09.x	c 924	10	50.0	46	9	AA916587	AA916587
852	10	50.0	34	17	AZ596940	AZ596940 IM0410G01	925	10	50.0	46	9	AA946385	AA946385
853	10	50.0	34	17	TA1645448	TA1645448 IM0491J15	c 926	10	50.0	46	9	AA946385	AA946385
854	10	50.0	34	17	TA128E02Q	TA128E02 T. Bruce1	c 927	10	50.0	46	9	AA946385	AA946385
855	10	50.0	34	17	TA367E10Q	TA367E10 T. Bruce1	c 928	10	50.0	46	9	AA946385	AA946385
856	10	50.0	35	9	AL594363	AL594363 AL594363	c 929	10	50.0	46	9	AA946385	AA946385
857	10	50.0	35	17	AZ606600	AZ606600 IM0428P05	930	10	50.0	46	9	AA946385	AA946385
858	10	50.0	35	17	AZ784718	AZ784718 2M0027K01	931	10	50.0	46	9	AA946385	AA946385
859	10	50.0	35	17	AZ829796	AZ829796 2M0107H11	c 932	10	50.0	46	9	AA946385	AA946385
860	10	50.0	35	17	AZ848204	AZ848204 2M0133K17	c 933	10	50.0	46	9	AA946385	AA946385
861	10	50.0	35	17	AZ861607	AZ861607 2M0168P11	934	10	50.0	46	9	AA946385	AA946385
862	10	50.0	36	9	AL640463	AL640463 AL640463	935	10	50.0	46	10	AA651831	AA651831
863	10	50.0	36	13	BM050289	BM050289 603632506	c 936	10	50.0	46	13	BE1837191	BE1837191
864	10	50.0	36	17	AZ784252	AZ784252 2M0022P20	c 937	10	50.0	46	17	AZ454433	AZ454433
865	10	50.0	36	17	AZ784857	AZ784857 2M0028I08	c 938	10	50.0	46	17	AZ660725	AZ660725
866	10	50.0	37	9	AL129902	AL129902 qe41b07.x	c 939	10	50.0	47	10	BE124992	BE124992
867	10	50.0	37	9	AL109860	AL109860 qd76h04.x	940	10	50.0	47	14	BE124992	BE124992
868	10	50.0	37	9	AL157425	AL157425 qd01e09.x	c 941	10	50.0	47	14	BE124992	BE124992
869	10	50.0	37	9	AL147414	AL147414 tm5h10.x	942	10	50.0	47	17	AQ025214	AQ025214
870	10	50.0	37	9	AL1698327	AL1698327 tx63e12.x	943	10	50.0	47	17	AZ079000	AZ079000
871	10	50.0	37	9	AL1971855	AL1971855 wv29e06.x	944	10	50.0	47	17	AZ772741	AZ772741
872	10	50.0	37	17	AZ451733	AZ451733 IM0089K21	c 945	10	50.0	47	17	AZ946014	AZ946014
873	10	50.0	37	17	AZ461686	AZ461686 IM0106C22	c 946	10	50.0	48	17	AZ439947	AZ439947
874	10	50.0	37	17	AZ476475	AZ476475 IM0295C24	947	10	50.0	49	9	AA041234	AA041234
875	10	50.0	37	17	AZ593655	AZ593655 IM0405L16	c 948	10	50.0	49	9	AA041234	AA041234
876	10	50.0	37	17	AZ936580	AZ936580 2M0193018	949	10	50.0	49	9	AA041234	AA041234
877	10	50.0	37	17	AZ989635	AZ989635 2M0273K06	c 950	10	50.0	49	9	AA041234	AA041234
878	10	50.0	37	17	BB847696	BB847696 SALK_U058	c 951	10	50.0	49	9	AA041234	AA041234
879	10	50.0	38	9	AA108281	AA108281 EST0024.r	c 952	10	50.0	49	12	BG565805	BG565805
880	10	50.0	38	10	RF534187	RF534187 601232196	c 953	10	50.0	49	14	BE18118	BE18118
881	10	50.0	38	14	BZ3974	BZ3974 yl10t05.s1	c 954	10	50.0	49	17	AZ495400	AZ495400
882	10	50.0	38	17	AZ419566	AZ419566 IM0196F12	c 955	10	50.0	49	17	AZ430158	AZ430158



/clone\_lib "Soares\_mammary\_gland NbMMG"  
 /sex "male"  
 /tissue\_type "mammary\_gland"  
 /dev\_stage "4 weeks"  
 /lab\_host "t10108"  
 /note "organ: mammary gland; Vector: p1713D-Pac (Pharmacia)  
 ) with a modified polylinker; Site\_1: Not 1; Site\_2: Eco  
 RI; 1st strand cDNA was primed with a Not 1 - oligo(dI)  
 primer [5].

TGTTACCAATCGAAGTGGAGGCGGAGGAAATGGTTTTTTTTTTTTTT  
 T 3'; double-stranded cDNA was ligated to Eco RI  
 adaptors (Pharmacia), digested with Not 1 and cloned into  
 the Not 1 and Eco RI sites of the modified p1713 vector.  
 RNA provided by Dr. Minoru Ko, Wayne State Univ. Library  
 constructed and normalized by Bento Soares and M.Fatima  
 Bonaldo."

BASE COUNT 11 a 14 c 10 q 8 t  
 ORIGIN

Query Match 72.0%; Score 14.4; DB 9; Length 43;  
 Best Local Similarity 94.8%; Pred. No. 8.6e+04;  
 Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 CAGAGGAGGATGCGGAGG 16  
 TTTT TTTTTTTTTT  
 Db 4 CAGAGGAGGATGCGGAGG 28

## RESULT 4

A1423979

LOCUS A1423979 43 bp mRNA linear EST 09-MAR-1999  
 DEFINITION similar to SW:SP49\_HUMAN Q15427 SPICEGHOME ASSOCIATED PROTEIN 49  
 ; contains element MER22 repetitive element ;; mRNA sequence.

ACCESSION A1423979

VERSION A1423979.1 GI:4269910

KEYWORDS EST.

SOURCE human.

ORGANISM Homo sapiens

Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;

Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.

1 (bases 1 to 43)

NC1/NINDS-CGAP <http://www.ncbi.nlm.nih.gov/ncicgap>.

National Cancer Institute / National Institute of Neurological

Disorders and Stroke, Brain Tumor Genome Anatomy Project

(CGAP/HUGAP), Tumor Gene Index

Unpublished (1998)

Contact: Robert Strausberg, Ph.D.

Email: [capts-r@mail.nih.gov](mailto:capts-r@mail.nih.gov)

Tissue Procurement: David N. Louis, M.D., Myrna K. Rosenfeld M.D.,

Ph.D.

cDNA Library Preparation: M. Bento Soares, Ph.D., M. Fatima

Bonaldo, Ph.D.

cDNA Library Arrayed by: Greg Lennon, Ph.D.

DNA Sequencing by: Washington University Genome Sequencing Center

clone distribution: NC1-CGAP clone distribution information can be

found through the J.M.A.G.E. Consortium/LLNL at:

[www-bio.lnl.gov/bbrp/image/image.html](http://www-bio.lnl.gov/bbrp/image/image.html)

Trace considered overall poor quality

Seq primer: -40bp from Gibco

High quality sequence stop: 1.

Location/Qualifiers

1..43

/organism "Homo sapiens"

/db\_xref "taxon:9606"

/clone "IMAGE:2098325"

/clone\_lib "NC1-CGAP\_Brn23"

/tissue\_type "glioblastoma (pooled)"

/lab\_host "t10108"

/note "organ: brain; Vector: p1713D-Pac (Pharmacia) with a

modified polylinker; Site\_1: Not 1; Site\_2: Eco RI; 1st

strand cDNA was primed with a Not 1 - oligo(dI) primer [5].

## FEATURES

source

BASE COUNT

ORIGIN

Query Match

68.0%; Score 13.6; DB 9; Length 40;

TGTTACCAATCGAAGTGGAGGCGGAGGAAATGGTTTTTTTTTTTTTT  
 T 3'; double-stranded cDNA was ligated to Eco RI  
 adaptors (Pharmacia), digested with Not 1 and cloned into  
 the Not 1 and Eco RI sites of the modified p1713 vector.  
 Library is normalized, and was constructed by Bento  
 Soares and M.Fatima Bonaldo."

BASE COUNT 4 a 17 c 17 q 5 t  
 ORIGIN

Query Match 69.0%; Score 13.8; DB 9; Length 43;  
 Best Local Similarity 88.2%; Pred. No. 1.4e+05;  
 Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 3 GGGTGGATGCGGAGG 19

TTTT TTTTTTTTTT

Db 6 GGGTGGATGCGGAGG 22

## RESULT 4

A1089757

LOCUS

DEFINITION

A1089757 40 bp mRNA linear EST 18-AUG-1998  
 similar to SW:PRPH\_HUMAN P02814 PROLINE-RICH PEPTIDE P-R. contains  
 MER22.163 IARI repetitive element ;; mRNA sequence.

ACCESSION A1089757

VERSION A1089757.1 GI:3428816

KEYWORDS EST.

SOURCE human.

ORGANISM Homo sapiens

Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;

Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.

1 (bases 1 to 40)

NC1/NINDS-CGAP <http://www.ncbi.nlm.nih.gov/ncicgap>.

National Cancer Institute / National Institute of Neurological

Disorders and Stroke, Brain Tumor Genome Anatomy Project

(CGAP/HUGAP), Tumor Gene Index

Unpublished (1998)

Contact: Robert Strausberg, Ph.D.

Email: [capts-r@mail.nih.gov](mailto:capts-r@mail.nih.gov)

Tissue Procurement: David N. Louis, M.D., Myrna K. Rosenfeld M.D.,

Ph.D.

cDNA Library Preparation: M. Bento Soares, Ph.D., M. Fatima

Bonaldo, Ph.D.

cDNA Library Arrayed by: Greg Lennon, Ph.D.

DNA Sequencing by: Washington University Genome Sequencing Center

clone distribution: NC1-CGAP clone distribution information can be

found through the J.M.A.G.E. Consortium/LLNL at:

[www-bio.lnl.gov/bbrp/image/image.html](http://www-bio.lnl.gov/bbrp/image/image.html)

Trace considered overall poor quality

Seq primer: -40m13 fwd. Cl from Amersham

High quality sequence stop: 1.

Location/Qualifiers

1..40

/organism "Homo sapiens"

/db\_xref "taxon:9606"

/clone "IMAGE:1687516"

/clone\_lib "NC1-CGAP\_Brn23"

/tissue\_type "glioblastoma (pooled)"

/lab\_host "t10108"

/note "organ: brain; Vector: p1713D-Pac (Pharmacia) with a

modified polylinker; Site\_1: Not 1; Site\_2: Eco RI; 1st

strand cDNA was primed with a Not 1 - oligo(dI) primer [5].

Library is normalized, and was constructed by Bento

Soares and M.Fatima Bonaldo."

7 a 9 c 24 q 0 t





High quality sequence step: 42.

# FEATURES

source

1. 42  
/organism "Homo sapiens"  
/db\_xref "taxon:9606"  
/clone "IMAGE:4952119"  
/clone\_lib "NH\_MGC\_9"  
/tissue\_type "adrenocarcinoma cell line"  
/lab\_host "D410B (plaque-resistant)"  
/notes "Organ: ovary; Vector: pOTB7; Site: 1; XhoI: site\_2; EcoRI: cDNA made by oligo-dT priming. Directionally cloned into EcoRI/XhoI sites using the following 5' adaptor: GGCACGAG(G). Size-selected >500bp for average insert size 1.8kb. Library constructed by Ling Hong in the laboratory of Gerald M. Rubin (University of California, Berkeley) using ZAP-cDNA synthesis kit (Stratagene) and Superscript II RT (Life Technologies)."

BASE COUNT 8 a 10 c 18 g 6 t

## ORIGIN

Query Match 66.0%; Score 13.2; DB 12; Length 42;  
Best Local Similarity 83.4%; Pred. No. 2,400,05;  
Matches 15; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 1 GAGAGGAGGATGGGGAG 18  
||||| III III II  
DB 7 GAGAGGAGGATGGGGAG 24

## RESULT \*

AZ802167

LOCUS

DEFINITION 20061A07E Mouse 10kb plasmid MGC1M library Mus musculus genomic clone U0632M061A07 F, DNA sequence.

ACCESSION AZ802167

VERSION AZ802167.1 GI:12954586

KEYWORDS GSS.

SOURCE house mouse.

ORGANISM Mus musculus.

Eukaryota; Metazoa; Chordata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Mus.

1 (bases 1 to 20)

Dunn,D., Aoyagi,A., Barber,M., Bearcorn,T., Duval,B., Hamil,C., Islam,H., Lonquarre,S., Mahmoud,M., Meenen,E., Pedersen,T., Reilly,M., Rose,M., Rose,K., Stokes,R., Tinney,A., von Niederhausern,A. and Wright,D., Weiss,K.

Mouse whole genome scaffolding with paired end reads from 10kb

plasmid inserts

Unpublished (2000)

Contact: Robert B. Weiss

University of Utah Genome Center

University of Utah

Rm. 408, Biomedical Polymers Research Bldg., 20 S. 2040 E., SLCC, UT

84112, USA

Tel: 801 585 5606

Fax: 801 585 7177

Email: dbm@genetics.utah.edu

Insert length: 10000 Std Error: 0.00

Plate: 061 row: A column: 07

Seq primer: GTGTAAACGACGGATG

Class: plasmid ends

High quality sequence step: 20.

location/Qualifiers

1. 20

/organism "Mus musculus"

/strain "G57BL/6J"

/db\_xref "taxon:10090"

/clone "U0632M061A07"

/clone\_lib "Mouse 10kb plasmid MGC1M library"

/sex "Male"

/lab\_host "E. Coli strain XL10-Gold, II-resistant, F"

/note "Vector: pW42mV; Purified genomic DNA from M.

musculus G57BL/6J (male) was obtained from the Jackson

Laboratory Mouse DNA Resource

(http://www.jax.org/resources/documents/dnares/). The DNA was hydrodynamically sheared by repeated passage through a 0.005 inch orifice at constant velocity. The sheared DNA was blunt end-repaired with T4 DNA polymerase and 14 polynucleotide kinase. Adaptor oligonucleotides were ligated to the blunt ends in high molar excess. The adaptor DNA was purified and size-selected for a 9.5 to 10.5 kb range using preparative agarose gel electrophoresis. Vector DNA was prepared from a derivative of pMD42 (q114732114) (pAF129072.1), a copy-number-inducible derivative of plasmid R1. The vector was ligated with adaptors complementary to the insert adaptors and purified. The sheared, adaptor mouse DNA was annealed to adaptor vector DNA, and transformed into chemically-competent E. coli XL10 Gold (Stratagene) cells and selected for ampicillin resistance."

BASE COUNT 2 a 1 c 14 g 3 t

## ORIGIN

Query Match 64.0%; Score 12.8; DB 17; Length 20;  
Best Local Similarity 87.5%; Pred. No. 3,300,05;  
Matches 14; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 3 GGGGAGGATGGGGAG 18  
||||| IIIII  
DB 4 GGGGAGGATGGGGAG 19

## RESULT \*

AZ46567

LOCUS

DEFINITION 27 bp DNA linear GSS 04 Oct 2000 clone U0632M075617 K, DNA sequence.

ACCESSION AZ46567

VERSION AZ46567.1 GI:10923788

KEYWORDS GSS.

SOURCE house mouse.

ORGANISM Mus musculus.

Eukaryota; Metazoa; Chordata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Mus.

1 (bases 1 to 27)

Dunn,D., Aoyagi,A., Barber,M., Bearcorn,T., Duval,B., Hamil,C., Islam,H., Lonquarre,S., Mahmoud,M., Meenen,E., Pedersen,T., Reilly,M., Rose,M., Rose,K., Stokes,R., Tinney,A., von Niederhausern,A. and Wright,D., Weiss,K.

Mouse whole genome scaffolding with paired end reads from 10kb

plasmid inserts

Unpublished (2000)

Contact: Robert B. Weiss

University of Utah Genome Center

University of Utah

Rm. 408, Biomedical Polymers Research Bldg., 20 S. 2040 E., SLCC, UT

84112, USA

Tel: 801 585 5606

Fax: 801 585 7177

Email: dbm@genetics.utah.edu

Insert length: 10000 Std Error: 0.00

Plate: 0275 row: C column: 17

Seq primer: CACACAGGAAACAGTATGACC

Class: plasmid ends

High quality sequence step: 27.

location/Qualifiers

1. 27

/organism "Mus musculus"

/strain "G57BL/6J"

/db\_xref "taxon:10090"

/clone "U0632M075617"

/clone\_lib "Mouse 10kb plasmid MGC1M library"

/sex "Male"

/lab\_host "E. Coli strain XL10-Gold, II-resistant, F"

/note "Vector: pW42mV; Purified genomic DNA from M.

musculus G57BL/6J (male) was obtained from the Jackson

Laboratory Mouse DNA Resource  
(<http://www.fax.org/resources/documents/dnares/>). The DNA was hydrodynamically sheared by repeated passage through a 0.005 inch orifice at constant velocity. The sheared DNA was blunt end repaired with T4 DNA polymerase and T4 polynucleotide kinase. Adaptor oligonucleotides were ligated to the blunt ends in high molar excess. The adapted DNA was purified and size selected for a 9.5 to 10.5 kb range using preparative agarose gel electrophoresis. Vector DNA was prepared from a derivative of pMD2 (q114742114[bbA]F29072.1), a copy-number inducible derivative of plasmid R1. The vector was ligated with adaptors complementary to the insert adaptors and purified. The sheared, adapted mouse DNA was annealed to adapted vector DNA, and transformed into chemically-competent *E. coli* XL10-Gold (Stratagene) cells and selected for ampicillin resistance.

BASE COUNT 5 a 2 c 16 g 4 t  
ORIGIN

Query Match 64.0%; Score 12.8; DB 17; Length 27;  
Best Local Similarity 87.5%; Pred. No. 3,6e+05;  
Matches 14; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 4 GGGGATGAGGAGGAG 19  
II TTTTTT TTTT  
DB 3 GGTGGATGAGGAG 18

RESULT 10  
A2432529  
LOCUS  
DEFINITION  
A2432529 Mouse 10kb plasmid mDGE1M library Mus musculus genomic clone M0218C04 F. DNA sequence.

ACCESSION  
VERSION  
KEYWORDS  
SOURCE  
ORGANISM  
A2432529.1 GI:10556542  
GSS.  
house mouse.  
Mus musculus

REFERENCE  
AUTHORS  
Dunn,D., Ayadi,A., Barber,M., Beavorn,L., Buzal,R., Hamill,C., Islam,H., Lenquer,S., Mahmoud,M., Meenen,E., Petersen,L., Reilly,M., Rose,M., Rose,R., Stokes,R., Tiney,A., von Niederhausen,A. and Wright,D., Weiss,R.

TITLE  
Mouse whole genome scaffolding with paired end reads from 10kb plasmid inserts  
Unpublished (2000)  
Contact: Robert B. Weiss  
University of Utah Genome Center  
University of Utah  
Rm. 408, Biomedical Polymers Research Bldg., 20 S. 2040 E., Salt, UT 84112, USA  
Tel: 801 585 5606  
Fax: 801 585 7177  
Email: dunn-genetics.utah.edu  
Insert Length: 10000 Std Error: 0.00  
Plate: 0218 row: c column: 04  
Seq primer: CGTGTAAAAAGACGGGAGT  
Class: plasmid ends  
High quality sequence stop: 29.

FEATURES  
Location/Qualifiers  
1..29  
/organism "Mus musculus"  
/strain "c57Bl/6J"  
/db\_xref "taxon:10090"  
/clone "mDGE1M0218C04"  
/clone\_lib "Mouse 10kb plasmid mDGE1M library"  
/sex "Male"  
/lab\_host "E. coli strain XL10-gold, T1 resistant, F"  
/note "Vector: pMD20v; purified genomic DNA from Mus musculus c57Bl/6J (male) was obtained from the Jackson

Laboratory Mouse DNA Resource  
(<http://www.fax.org/resources/documents/dnares/>). The DNA was hydrodynamically sheared by repeated passage through a 0.005 inch orifice at constant velocity. The sheared DNA was blunt end repaired with T4 DNA polymerase and T4 polynucleotide kinase. Adaptor oligonucleotides were ligated to the blunt ends in high molar excess. The adapted DNA was purified and size selected for a 9.5 to 10.5 kb range using preparative agarose gel electrophoresis. Vector DNA was prepared from a derivative of pMD2 (q114742114[bbA]F29072.1), a copy-number inducible derivative of plasmid R1. The vector was ligated with adaptors complementary to the insert adaptors and purified. The sheared, adapted mouse DNA was annealed to adapted vector DNA, and transformed into chemically-competent *E. coli* XL10-Gold (Stratagene) cells and selected for ampicillin resistance.

BASE COUNT 6 a 1 c 17 g 5 t  
ORIGIN

Query Match 64.0%; Score 12.8; DB 17; Length 29;  
Best Local Similarity 87.5%; Pred. No. 3,6e+05;  
Matches 14; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 4 GGGGATGAGGAGGAG 19  
II TTTTTT TTTT  
DB 1 GGTGGATGAGGAG 16

RESULT 11  
A1581294  
LOCUS  
DEFINITION  
A1581294  
IMAG:2944655, 3' similar to SW:PR06\_HUMAN P02814 PROLINE\_RICH PEPTIDE P.W. mRNA sequence.

ACCESSION  
VERSION  
KEYWORDS  
SOURCE  
ORGANISM  
A1581294.1 GI:4565669  
EST.  
human.  
Eukaryote  
Eukaryote  
Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;  
Mammalia; Eutheria; Primates; Catarrhini; Hominoidea; Homo.

REFERENCE  
AUTHORS  
TITLE  
JOURNAL  
COMMENT  
N1 (GAP) <http://www.ncbi.nlm.nih.gov/ncbi/gap/>.  
National Cancer Institute, Cancer Genome Anatomy Project (CGAP).  
Tumor Gene Index  
Unpublished (1997)  
Contact: Robert Strausberg, Ph.D.  
Email: rpages@mail.nih.gov

This clone is available royalty free through LNC. Contact the IMAGE Consortium ([info@image.llnwd.net](http://info.image.llnwd.net)) for further information.  
Trace considered overall poor quality  
Insert Length: 721 Std Error: 0.00  
Seq primer: 400P from Gibco  
High quality sequence stop: 1  
POLYA No.

FEATURES  
Location/Qualifiers  
1..46  
/organism "Homo sapiens"  
/db\_xref "taxon:9606"  
/clone "IMAG:2944655"  
/clone\_lib "Scars Total Tetus NB28F8 9w"  
/seq\_stamp "8 9 weeks"  
/lab\_host "H1008"  
/note "Vector: pT70 Tac (Pharmacia) with a modified polylinker; Site 1: Not 1; Site 2: Not 1; 1st strand cDNA was prepared from mRNA obtained from pooled 8 9 week (total) fetus material with a Not 1 oligo(dT) primer [5'-GGTAAAGTCAGACGGAGCGGAGTAAATTTTTTTTTTTT-3']. Isocle strand cDNA was ligated to Eco RI adaptors (Pharmacia), digested with Not 1 and cloned into the Not 1 and Eco RI sites of the modified pT70 vector. Library went through one round of normalization, and was

```

BASE COUNT      13 a      10 c      19 g      4 t
ORIGIN
Query Match:      64.0%; Score 12.8; DB 9; Length 46;
Best Local Similarity 87.5%; Pred. No. 3.9e+05;
Matches 14; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 4 GCGGCAAGGAGGAGG 19
|||||
Db 7 GAGGAGATGGGAGGAGG 22

RESULT 12
AL644703
LOCUS      AL644703      50 bp      mRNA      linear      EST 07-Nov-2001
DEFINITION AL644703 XGC-gastrula Silurana tropicalis cDNA clone UG2109.5',
mRNA sequence.
ACCESSION AL644703
VERSION AL644703.1 GI:16795828
KEYWORDS EST.
SOURCE western clawed frog.
ORGANISM Silurana tropicalis
Eukaryota; Metazoa; Chordata; Vertebrata; Euteleostomi;
Amphibia; Batrachia; Anura; Mesobatrachia; Pipidoidea; Pipidae;
Xenopodinae; Silurana.
1 (bases 1 to 50)
Buckle, E., Taylor, R., Ashurst, J.L., Zorn, A.M. and Rogers, J.
Sanger Xenopus tropicalis EST project, 2001 (10c_2001)
Unpublished (2001)
Contact: Buckle E
Sanger Centre
Hinxton, Cambridgeshire, CB10 1SA, UK
Email: trop-sanger.ac.uk
Sanger Xenopus tropicalis EST project, 2001
TROPICALIS_SEQUENCE_ID: UG2109.plc
Sequencing primer: PLC
This sequence is from a Xenopus Gene Collection (XGC) library
constructed by Aaron M. Zorn.
FEATURES
Location/Qualifiers
1..50
BASE COUNT      8 a      9 c      21 g      12 t
ORIGIN
Query Match:      64.0%; Score 12.8; DB 9; Length 50;
Best Local Similarity 87.5%; Pred. No. 3.2e+05;
Matches 14; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 5 GAGGATGGGAGGAGG 20
|||||
Db 6 GAGGATGGGAGGAGG 49

RESULT 13
AZ969578
LOCUS      AZ969578      21 bp      DNA      linear      GSS 27 APR-2001
DEFINITION ZMO242G20F Mouse 10kb plasmid 0003C2M library Mus musculus genomic
c clone 0003C2M0242520 F, DNA sequence.
ACCESSION AZ969578
VERSION AZ969578.1 GI:14840805
KEYWORDS GSS.
SOURCE house mouse.

Mus musculus
Eukaryota; Metazoa; Chordata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Rodentia; Sciurognathia; Muridae; Murinae; Mus.
1 (bases 1 to 21)
Ishida, Ayuda, A., Barber, M., Beccorn, T., Inval, R., Bamil, C.,
Islam, H., Imdad, S., Mahmood, M., Mooney, E., Pedersen, L., Kelly,
M., Rose, M., Rose, R., Stokes, R., Tindley, A., von Niederhausern, A.
and Wright, D., Weiss, R.
Mouse whole genome scaffolding with paired end reads from 10kb
plasmid inserts
Unpublished (2000)
Contact: Robert B. Weiss
University of Utah Genome Center
University of Utah
Rm. 306, Biomedical Polymers Research Bldg., 20 S. 2000 E., Salt Lake City, UT
84112, USA
Tel: 801 585 5606
Fax: 801 585 7177
Email: dunn.genetics.utah.edu
Insert length: 10000 Std Error: 0.09
Plate: 0242 tow; G column: 20
Seq primer: GGTGTAAGAAAGACGACAGT
Class: plasmid ends
High quality sequence step: 21.
Location/Qualifiers
1..21
ORGANISM "Mus musculus"
/strain "C57BL/6J"
/db_xref="taxon:10090"
/clone="0003C2M0242520"
/clone_lib "Mouse 10kb plasmid 0003C2M library"
/sex "Female"
/lab_host="E. coli strain XL10-Gold, 11-resistance, F-"
/notes="Vector: pMD42nv; Purified genomic DNA from M.
musculus C57BL/6J (female) was obtained from the Jackson
Laboratory Mouse DNA Resource
(http://www.jax.org/resources/documents/dnares/). The DNA
was hydrodynamically sheared by repeated passage through a
0.005 inch orifice at constant velocity. The sheared DNA
was blunt end-repaired with 14 DNA polymerase and 14
polynucleotide kinase. Adaptor oligonucleotides were
ligated to the blunt ends in high molar excess. The
adapted DNA was purified and size-selected for a 9.5 to
10.5 kb range using preparative agarose gel
electrophoresis. Vector DNA was prepared from a derivative
of pMD42 (ql4742114) (ql4742114) a copy number
inducible derivative of plasmid R1. The vector was ligated
with adaptors complementary to the insert adaptors and
purified. The sheared, adapted mouse DNA was annealed to
adapted vector DNA, and transformed into
chemically-competent E. coli XL10-Gold (Stratagene) cells
and selected for ampicillin resistance."
BASE COUNT      1 a      18 c      0 g      2 t
ORIGIN
Query Match:      63.0%; Score 12.6; DB 17; Length 21;
Best Local Similarity 78.9%; Pred. No. 3.9e+05;
Matches 15; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

QY 1 GAGGAGGAGGATGGGAGG 19
|||||
Db 20 GAGGAGGAGGATGGGAGG 2

RESULT 14
AZ971899
LOCUS      AZ971899      25 bp      mRNA      linear      EST 27-Nov-1999
DEFINITION w25q104.x1 NCLC GAP row 18 Homo sapiens cDNA IMAGE:2540999.47
similar to TR061144 061144 SP85; contains MSK1.b2 MSK1 repetitive
element; mRNA sequence.
ACCESSION AZ971899
VERSION AZ971899.1 GI:5768725
KEYWORDS EST.

```

**SOURCE**  
ORGANISM  
Human.  
Homo sapiens  
Eukaryota; Metazoa; Chordata; Vertebrata; Euteleostomi;  
Mammalia; Eutheria; Primates; Catarrhini; Hominoidea; Homo.  
1 (bases 1 to 25)  
**REFERENCE**  
**AUTHORS**  
NCI-CGAP <http://www.ncbi.nlm.nih.gov/ncicgap>.  
**TITLE**  
National Cancer Institute, Cancer Genome Anatomy Project (CGAP).  
Tumor Gene Index  
**JOURNAL**  
Unpublished (1997)  
**COMMENT**  
Contact: Robert Strausberg, Ph.D.  
Email: [cap@nci.nih.gov](mailto:cap@nci.nih.gov)  
Tissue Procurement: Christopher A. Moskaluk, M.D., Ph.D., Michael  
R. Emmert-Buck, M.D., Ph.D. cDNA Library Preparation: M. Bento  
Soares, Ph.D. cDNA Library Arrayed by: Christa Prange, The  
I.M.A.G.E. Consortium DNA Sequencing by: Washington University  
Genome Sequencing Center  
Clone Distribution: NCI CGAP clone distribution information can be  
found through the I.M.A.G.E. Consortium/IMAGE at:  
[www.bio.illinois.edu/ncicgap/ncicgap.html](http://www.bio.illinois.edu/ncicgap/ncicgap.html)

Trace considered overall poor quality  
Seq primer: 40bp from Gibco  
High quality sequence stop: 1.  
**FEATURES**  
Location/Qualifiers  
1..25

Organism "Homo sapiens"  
/db\_xref "taxon:9606"  
/clone "IMAGE:2530999"  
/clone\_lib "NCI CGAP ov18"  
/issue\_type "fibrotic-resistant"  
/note "organ: ovary; Vector: pTZ19-Pac (Pharmacia) with a  
modified polylinker; Site: 1; Not 1; Site: 2; Eco RI; 1st  
strand cDNA was primed with a Not 1 - oligo(dT) primer [5'  
TGTCACATCTGACATGCGACGCGCGGACATTTTTTTTTTT 3'];  
double-stranded cDNA was ligated to Eco RI adaptors  
(Pharmacia), digested with Not 1 and cloned into the Not  
1 and Eco RI sites of the modified pTZ19 vector. Library  
went through one round of normalization, and was  
constructed by Bento Soares and M. Fatima Bonaldi."

**BASE COUNT** 6 a 0 c 1 b q 1 1  
**ORIGIN**  
Query Match 63.0%; Score 12.6; DB 9; Length 25;  
Best Local Similarity 78.9%; Pred. No. 3.9e+05;  
Matches 15; Conservative 0; Mismatches 4; Indels 0; Gaps 0;  
QY 1 GAGGAGGATGATGAGGAGG 19  
TTTT TT TTTTTT 1  
DB 6 GAGGAGGATGAGGAGGAGG 24

**RESULT 15**  
AZ508957  
**LOCUS**  
D00709B8 Mouse 10kb plasmid D00709B8 library Mus musculus genomic  
clone D00709B8 R. DNA sequence.  
DEFINITION  
AZ508957  
Accession  
Version  
KeyWords  
Source  
Organism  
REFERENCE  
AUTHORS  
TITLE  
JOURNAL  
COMMENT

University of Utah Genome Center  
University of Utah  
Rm. 408, Biomedical Polymers Research Bldg., 20 S. 2000 E., Ste. 301  
84112, USA  
Tel: 801 585 5606  
Fax: 801 585 7177  
Email: [ddm@genetics.utah.edu](mailto:ddm@genetics.utah.edu)  
Insert Length: 10000 Std Error: 0.00  
Plate: 0597 Row: B Column: 08  
Seq primer: CAAGACAGACAGACAGAC  
Class: plasmid ends  
High quality sequence stop: 40.  
Location/Qualifiers  
1..40

Organism "Mus musculus"  
/strain "C57BL/6J"  
/db\_xref "taxon:10090"  
/clone "D00709B8"  
/clone\_lib "Mouse 10kb plasmid D00709B8 library"  
/sex "Male"  
/lab\_host "E. coli strain XL10 gold, 11 resistant, F"  
/note "Vector: pMD19-20; Purified genomic DNA from M.  
musculus (C57BL/6J (male) was obtained from the Jackson  
Laboratory Mouse DNA Resource  
(<http://www.jax.org/resources/shares/>). The DNA  
was hydynamically sheared by repeated passage through a  
0.005 inch orifice at constant velocity. The sheared DNA  
was blunt end repaired with 14 DNA polymerase and 14  
poly-nucleotide kinase. Adaptor oligonucleotides were  
ligated to the blunt ends to high molar excess. The  
adaptor DNA was purified and size selected for a 9.5 to  
10.5 kb range using preparative agarose gel  
electrophoresis. Vector DNA was prepared from a derivative  
of pMD19 (G14732114) (pAF129072.1) a copy number  
inducible derivative of plasmid R1. The vector was ligated  
with adaptors complementary to the insert adaptors and  
purified. The sheared, adaptor mouse DNA was annealed to  
adaptor vector DNA, and transformed into  
chemically competent E. coli XL10 gold (Stratagene) cells  
and selected for ampicillin resistance."

**BASE COUNT** 1 a 25 c 1 q 4 1  
**ORIGIN**  
Query Match 63.0%; Score 12.6; DB 17; Length 40;  
Best Local Similarity 78.9%; Pred. No. 3.9e+05;  
Matches 15; Conservative 0; Mismatches 4; Indels 0; Gaps 0;  
QY 1 GAGGAGGATGATGAGGAGG 19  
TTTT TT TTTTTT 1  
DB 22 GAGGAGGATGATGAGGAGG 4

**RESULT 16**  
AZ509048  
**LOCUS**  
D00709B8 Mouse 10kb plasmid D00709B8 library Mus musculus genomic  
clone D00709B8 R. DNA sequence.  
DEFINITION  
AZ509048  
Accession  
Version  
KeyWords  
Source  
Organism  
REFERENCE  
AUTHORS  
TITLE  
JOURNAL  
COMMENT

University of Utah Genome Center  
 University of Utah  
 Rm. 308, Biomedical Polymers Research Bldg., 20 S. 2030 E., SLC, UT  
 84112, USA  
 Tel: 801 585 5606  
 Fax: 801 585 7177  
 Email: ddmm@genetics.utah.edu  
 Insert Length: 10000 Std Error: 0.00  
 Plate: 0071 row: F column: 11  
 Seq primer: CACACAGGAACACAGCTATGACC  
 class: plasmid ends  
 High quality sequence stop: 32.  
 Location/Qualifiers  
 1. 32

#### FEATURES

source

/organism="Mus musculus"  
 /strain="C57BL/6J"  
 /db\_xref="taxon:10090"  
 /clone="006C1M0071F11"  
 /clone\_lib="Mouse 10kb plasmid MGC1M Library"  
 /sex="Male"  
 /lab\_host="E. Coli strain XL10-Gold, TI-resistant, F-"  
 /note="Vector: pMD2uv; Purified genomic DNA from M. musculus C57BL/6J (male) was obtained from the Jackson Laboratory Mouse DNA Resource (http://www.jax.org/resources/documents/dnares/). The DNA was hydrodynamically sheared by repeated passage through a 0.005 inch orifice at constant velocity. The sheared DNA was blunt end-repaired with T4 DNA polymerase and T4 polynucleotide kinase. Adaptor oligonucleotides were ligated to the blunt ends in high molar excess. The adaptor DNA was purified and size-selected for a 9.5 to 10.5 kb range using preparative agarose gel electrophoresis. Vector DNA was prepared from a derivative of pMD42 (ql14732114|bb|AT129072.1), a copy-number inducible derivative of plasmid pL1. The vector was ligated with adaptors complementary to the insert adaptors and purified. The sheared, adaptor mouse DNA was annealed to adaptor vector DNA, and transformed into chemically-competent E. coli XL10-Gold (Stratagene) cells and selected for ampicillin resistance."

BASE COUNT 0 a 2 c 30 q 0 t  
 ORIGIN  
 Query Match 63.0%; Score 12.6; DB 17; Length 32;  
 Best Local Similarity 78.9%; Pred. No. 3.9e+05;  
 Matches 15; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

QY 1 GAGGCGGCATGGGGGAGG 19  
 1 |111111 111111  
 Db 4 GAGGCGGCATGGGGGAGG 21

#### RESULT 17

BF184963/c

LOCUS

DEFINITION

ACCESSION

VERSION

KEYWORDS

SOURCE

ORGANISM

REFERENCE

AUTHORS

TITLE

JOURNAL

COMMENT

1 (bases 1 to 33)

NH-MGC http://mgc.nci.nih.gov/

National Institutes of Health, Mammalian Gene Collection (MGC)

Unpublished (1999)

Contact: Robert Strausberg, Ph.D.

Email: cnapts-r@mail.nih.gov

Tissue Procurement: ATCC

cDNA Library Preparation: CLONTECH Laboratories, Inc.

cDNA Library Arrayed by: The I.M.A.G.E. Consortium (LLNL)

FEATURES  
 source

DNA Sequencing by: Lucyte Genomics, Inc.  
 Clone distribution: MGC clone distribution information can be found through the I.M.A.G.E. Consortium/LLNL at: http://image.llnl.gov  
 Plate: L1CMB98 row: m column: 13  
 High quality sequence stop: 33.  
 Location/Qualifiers  
 1. 43

#### FEATURES

source

/organism="Homo sapiens"  
 /db\_xref="taxon:9606"  
 /clone="IMAGE:4064436"  
 /clone\_lib="NIH\_MGC\_54"  
 /tissue\_type="from chronic myelogenous leukemia"  
 /lab\_host="DH10B (TI phage-resistant)"  
 /note="Organ: bone marrow; Vector: pMD2-LIH (Clontech); Site: 1; SfiI (deccatccgac); Site: 2; SfiI (deccatccgac); double-stranded cDNA was prepared from cell line RNA. 5' and 3' adaptors were used in cloning as follows: 5' adaptor sequence: 5'-CAGGCGCATATGCGG-3' and 3' adaptor sequence: 5'-ATTCTAGAGCGGCGGCGGATG-dT(40)BN-4' (where B = A, C, or G and N = A, C, G, or T). Average insert size 1.75 kb (range 0.9-4.0 kb). 15/15 colonies contained inserts by PCR. This library was enriched for full-length clones and was constructed by Clontech Laboratories (Palo Alto, CA)."  
 BASE COUNT 1 a 15 c 9 g 8 t  
 ORIGIN

Query Match 63.0%; Score 12.6; DB 12; Length 43;  
 Best Local Similarity 78.9%; Pred. No. 3.9e+05;  
 Matches 15; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

QY 1 GAGGCGGCATGGGGGAGG 19  
 1 |111111 111111

Db 28 GAGGCGGCATGGGGGAGG 10

#### RESULT 18

AZ970687

LOCUS

DEFINITION

ACCESSION

VERSION

KEYWORDS

SOURCE

ORGANISM

REFERENCE

AUTHORS

TITLE

JOURNAL

COMMENT

1 (bases 1 to 36)

Mus musculus

Eukaryota; Metazoa; Chordata; Vertebrata; Euteleostomi;

Mammalia; Eutheria; Rodentia; Sciuroquathi; Muridae; Mus.

1 (bases 1 to 36)

Islam, H., Loucaire, S., Mahmoud, M., Meenen, E., Pedersen, T., Kelly, M., Rose, M., Rose, R., Stokes, R., Tingey, A., von Niederhausern, A.

Mouse whole genome scaffolding with paired end reads from 10kb

plasmid inserts

Unpublished (2000)

Contact: Robert B. Weiss

University of Utah

Rm. 308, Biomedical Polymers Research Bldg., 20 S. 2030 E., SLC, UT

84112, USA

Tel: 801 585 5606

Fax: 801 585 7177

Email: ddmm@genetics.utah.edu

Insert Length: 10000 Std Error: 0.00

Plate: 0243 row: 1 column: 23

Seq primer: CACACAGGAACACAGCTATGACC

class: plasmid ends

High quality sequence stop: 36.

Location/Qualifiers

1. 46

/organism="Mus musculus"

```

/strain "c57BL/6J"
/ab xref "taxon:10090"
/clone "003-200243123"
/clone lib "Mouse 10kb plasmid 003-2M library"
/sex "female"
/lab host "E. coli strain XL10 Gold, T1 resistant, F'"
/note "Vector: pMD42nv; Purified genomic DNA from M. musculus c57BL/6J (female) was obtained from the Jackson Laboratory Mouse DNA Resource.

```

```

(http://www.jax.org/resources/documents/dnares/). The DNA
was hydrodynamically sheared by repeated passage through a
0.005 inch orifice at constant velocity. The sheared DNA
was blunt end-repaired with 14 DNA polymerase and 14
polynucleotide kinase. Adaptor oligonucleotides were
ligated to the blunt ends in high molar excess. The
adapted DNA was purified and size-selected for a 9.5 to
10.5 kb range using preparative agarose gel
electrophoresis. Vector DNA was prepared from a derivative
of pMD42 (q114742114[qlAF129072.1]), a copy-number
inducible derivative of plasmid R1. The vector was ligated
with adaptors complementary to the insert adaptors and
purified. The sheared, adapted mouse DNA was annealed to
adapted vector DNA, and transformed into
chemically-competent E. coli XL10-Gold (Stratagene) cells
and selected for ampicillin resistance."

```

```

BASE COUNT      5  a      2  c      25  g      4  t
ORIGIN

```

```

Query Match      63.0%; Score 12.6; DB 17; Length 46;
Best Local Similarity 78.9%; Prod. No. 3,80005;
Matches 15; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

```

```

QY 1 GAGGAGGAGGAGGAGG 19
    1 111 111 111 111
DB 9 GAGGAGGAGGAGGAGG 27

```

```

RESULT 19
AZ871856/c
LOCUS      AZ871856      47 bp      DNA      linear      GSS 21 FEB-2001
DEFINITION 200104024R Mouse 10kb plasmid 003-2M library Mus musculus genomic
clone 003-200104024 R, DNA sequence.

```

```

ACCESSION  AZ871856
VERSION    AZ871856.1  GI:14078474
KEYWORDS   GSS.
SOURCE     house mouse.

```

```

ORGANISM   Mus musculus
            Eukaryota; Metazoa; Chordata; Vertebrata; Euteleostomi;
            Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Mus.
            1 (bases 1 to 47)
REFERENCE  1 (bases 1 to 47)
AUTHORS   Dunn,D., Ayoub,A., Barber,M., Beacorn,T., Dayal,B., Hamblin,C.,
            Islam,H., Lonnrotte,S., Mahmood,M., Meenen,E., Pedersen,L., Reilly
            M., Rose,M., Rose,R., Stokes,K., Tinney,A., von Niederhausern,A.,
            and Wright,D., Weiss,R.
            Mouse whole genome scaffolding with paired end reads from 10kb
            plasmid inserts
            Unpublished (2000)
            Contact: Robert B. Weiss
            University of Utah Genome Center

```

```

JOURNAL    University of Utah
COMMENT    Em, 408, Biomedical Polymers Research Bldg., 20 S. 2040 E., SU*, UT
            84112, USA
            Tel: 801 585 5606
            Fax: 801 585 7177
            Email: dbunn@med.utah.edu

```

```

Insert Length: 10000      Std Error: 0.00
Plate: 0184      row: 9      column: 24
Seq primer: CACACACGAAACAGATACAG
Class: plasmid ends
High quality sequence stop: 47.
Location/Qualifiers

```

```

FEATURES
SOURCE     1..47
            /organism "Mus musculus"

```

```

/strain "c57BL/6J"
/ab xref "taxon:10090"
/clone "003-200104024"
/clone lib "Mouse 10kb plasmid 003-2M library"
/sex "Male"
/lab host "E. coli strain XL10 Gold, T1 resistant, F'"
/note "Vector: pMD42nv; Purified genomic DNA from M. musculus c57BL/6J (male) was obtained from the Jackson Laboratory Mouse DNA Resource.

```

```

(http://www.jax.org/resources/documents/dnares/). The DNA
was hydrodynamically sheared by repeated passage through a
0.005 inch orifice at constant velocity. The sheared DNA
was blunt end-repaired with 14 DNA polymerase and 14
polynucleotide kinase. Adaptor oligonucleotides were
ligated to the blunt ends in high molar excess. The
adapted DNA was purified and size-selected for a 9.5 to
10.5 kb range using preparative agarose gel
electrophoresis. Vector DNA was prepared from a derivative
of pMD42 (q114742114[qlAF129072.1]), a copy-number
inducible derivative of plasmid R1. The vector was ligated
with adaptors complementary to the insert adaptors and
purified. The sheared, adapted mouse DNA was annealed to
adapted vector DNA, and transformed into
chemically-competent E. coli XL10-Gold (Stratagene) cells
and selected for ampicillin resistance."

```

```

BASE COUNT      3  a      3  c      1  g      0  t
ORIGIN

```

```

Query Match      63.0%; Score 12.6; DB 17; Length 47;
Best Local Similarity 78.9%; Prod. No. 3,80005;
Matches 15; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

```

```

QY 1 GAGGAGGAGGAGGAGG 19
    1 111 111 111 111
DB 27 GAGGAGGAGGAGGAGG 9

```

```

RESULT 20
AZ800472/c
LOCUS      AZ800472      49 bp      DNA      linear      GSS 05 OCT-2000
DEFINITION 100003103R Mouse 10kb plasmid 003-1M library Mus musculus genomic
clone 003-100003103 R, DNA sequence.

```

```

ACCESSION  AZ800472
VERSION    AZ800472.1  GI:10680122
KEYWORDS   GSS.
SOURCE     house mouse.

```

```

ORGANISM   Mus musculus
            Eukaryota; Metazoa; Chordata; Vertebrata; Euteleostomi;
            Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Mus.
            1 (bases 1 to 49)
REFERENCE  1 (bases 1 to 49)
AUTHORS   Dunn,D., Ayoub,A., Barber,M., Beacorn,T., Dayal,B., Hamblin,C.,
            Islam,H., Lonnrotte,S., Mahmood,M., Meenen,E., Pedersen,L., Reilly
            M., Rose,M., Rose,R., Stokes,K., Tinney,A., von Niederhausern,A.,
            and Wright,D., Weiss,R.
            Mouse whole genome scaffolding with paired end reads from 10kb
            plasmid inserts
            Unpublished (2000)
            Contact: Robert B. Weiss
            University of Utah Genome Center

```

```

JOURNAL    University of Utah
COMMENT    Em, 408, Biomedical Polymers Research Bldg., 20 S. 2040 E., SU*, UT
            84112, USA
            Tel: 801 585 5606
            Fax: 801 585 7177
            Email: dbunn@med.utah.edu

```

```

Insert Length: 10000      Std Error: 0.00
Plate: 0184      row: 9      column: 11
Seq primer: CACACACGAAACAGATACAG
Class: plasmid ends
High quality sequence stop: 48.
Location/Qualifiers

```

```

FEATURES
SOURCE     1..48
            /organism "Mus musculus"

```

```

/strain-"C57BL/6J"
/db_xref-"taxon:10090"
/clone-"U00C1M0396001"
/clone.lib-"Mouse 10kb plasmid U00C1M library"
/sex-"Male"
/lab_host-"E. Coli strain XL10-Gold, T1-resistant, F-"
/notes-"Vector: pMD29v; Purified genomic DNA from M. musculus C57BL/6J (male) was obtained from the Jackson Laboratory Mouse DNA Resource (http://www.jax.org/resources/documents/dnares/). The DNA was hydrodynamically sheared by repeated passage through a 0.005 inch orifice at constant velocity. The sheared DNA was blunt end-repaired with T4 DNA polymerase and T4 polynucleotide kinase. Adaptor oligonucleotides were ligated to the blunt ends in high molar excess. The adaptor DNA was purified and size-selected for a 9.5 to 10.5 kb range using preparative agarose gel electrophoresis. Vector DNA was prepared from a derivative of pMD29 (q1147321141q1AF129072.1), a copy-number inducible derivative of plasmid R1. The vector was ligated with adaptors complementary to the insert adaptors and purified. The sheared, adaptor mouse DNA was annealed to adaptor vector DNA, and transformed into chemically-competent E. coli XL10-Gold (Stratagene) cells and selected for ampicillin resistance."
BASE COUNT      0 a      36 c      2 q      0 t
ORIGIN

Query Match      64.0%; Score 12.6; DB 17; Length 38;
Best Local Similarity 78.9%; Pred. No. 3.8e+05;
Matches 15; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

QY      1 GAGGGGCGATGGGGAGG 19
        | | | | | | | | | |
Db      26 GGGGGGGGGGGGGGGGG 8

RESULT 21
AZ588432/c
LOCUS      AZ588432      39 bp      DNA      linear      GSS      13-DEC-2000
DEFINITION      LM0396001R Mouse 10kb plasmid U00C1M library Mus musculus genomic clone U00C1M0396001 R, DNA sequence.
ACCESSION      AZ588432
VERSION      AZ588332.1 GI:11710522
KEYWORDS      GSS.
SOURCE      house mouse.
ORGANISM      Mus musculus
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Mus.
Dunn,D., Aoyagi,A., Barber,M., Bearcroft,T., Duval,B., Hamil,C., Islam,H., Longacre,S., Mahmood,M., Meenen,E., Pedersen,T., Reilly,M., Rose,M., Rose,R., Stokes,R., Tinney,A., von Niederhausern,A., and Wright,D., Weiss,R.
Mouse whole genome scaffolding with paired end reads from 10kb plasmid inserts
Unpublished (2000)
Contact: Robert R. Weiss
University of Utah Genome Center
University of Utah
Rm. 308, Biomedical
84112, USA
Tel: 801 585 5606
Fax: 801 585 7177
Email: dunn@genetics.utah.edu
Insert length: 10000 Std Error: 0.00
Plate: 0496 row: 0 column: 01
Seq primer: CACACAGCAACACGATGAGC
Class: plasmid ends
High quality sequence stop: 39.
FEATURES
            location/Qualifiers
            1..39
            /organism="Mus musculus"

```

```

/strain-"C57BL/6J"
/db_xref-"taxon:10090"
/clone-"U00C1M0396001"
/clone.lib-"Mouse 10kb plasmid U00C1M library"
/sex-"Male"
/lab_host-"E. Coli strain XL10-Gold, T1-resistant, F-"
/notes-"Vector: pMD29v; Purified genomic DNA from M. musculus C57BL/6J (male) was obtained from the Jackson Laboratory Mouse DNA Resource (http://www.jax.org/resources/documents/dnares/). The DNA was hydrodynamically sheared by repeated passage through a 0.005 inch orifice at constant velocity. The sheared DNA was blunt end-repaired with T4 DNA polymerase and T4 polynucleotide kinase. Adaptor oligonucleotides were ligated to the blunt ends in high molar excess. The adaptor DNA was purified and size-selected for a 9.5 to 10.5 kb range using preparative agarose gel electrophoresis. Vector DNA was prepared from a derivative of pMD29 (q1147321141q1AF129072.1), a copy-number inducible derivative of plasmid R1. The vector was ligated with adaptors complementary to the insert adaptors and purified. The sheared, adaptor mouse DNA was annealed to adaptor vector DNA, and transformed into chemically-competent E. coli XL10-Gold (Stratagene) cells and selected for ampicillin resistance."
BASE COUNT      0 a      27 c      2 q      10 t
ORIGIN

Query Match      63.0%; Score 12.6; DB 17; Length 39;
Best Local Similarity 78.9%; Pred. No. 3.8e+05;
Matches 15; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

QY      1 GAGGGGCGATGGGGAGG 19
        | | | | | | | | | |
Db      34 GAGGGGAGGGAGGGAGG 16

RESULT 22
AZ55828/c
LOCUS      AZ55828      43 bp      mRNA      linear      EST      15-FEB-1999
DEFINITION      qu02b05.x1 NCI-CGAP_Col4 Homo sapiens cDNA clone IMAGE:1964569.3' similar to WP:T2D1.2 CE17246 ;contains element MSK1 repetitive element ;, mRNA sequence.
ACCESSION      AZ55828
VERSION      AZ55828.1 GI:4095981
KEYWORDS      EST.
SOURCE      human.
ORGANISM      Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
1 (bases 1 to 43)
NCI-CGAP http://www.ncbi.nlm.nih.gov/ncicgap.
National Cancer Institute, Cancer Genome Anatomy Project (CGAP), Tumor Gene Index
Unpublished (1997)
Contact: Robert Strausberg, Ph.D.
Email: exabbs-r@mail.nih.gov
Tissue procurement: Christopher Moskaluk, M.D., Ph.D., Michael R. Emmert-Buck, M.D., Ph.D.
cDNA library preparation: Life Technologies, Inc.
cDNA Library Arrayed by: Greg Lennon, Ph.D.
DNA Sequencing by: Washington University Genome Sequencing Center
Clone distribution: NCI-CGAP clone distribution information can be found through the I.M.A.G.E. Consortium/LLNL at: www.bio.llnl.gov/bbrp/image.html
Trace considered overall poor quality
Insert length: 518 Std Error: 0.00
Seq primer: -400p from Gibco
High quality sequence stop: 1.
FEATURES
            location/Qualifiers
            1..43
            /organism="Homo sapiens"

```

```

/ab_xref "taxon:9606"
/cellone lib "MAGE:1963569"
/cellone lib "NCI-CGAP_Col4"
/assess_type "moderately-differentiated adenocarcinoma"
/lab_host "DH10B"
/notes "organ: colon; Vector: pMW SPOR16; Site_1: SalI; Site_2: NotI; Cloned unidirectionally. Primer: o150 df. Average insert size 1.7 kb. Life Technologies catalog #: 11541-019"
BASE COUNT      9 4      21 4      1 1
ORIGIN
Query Match      63.0%; Score 12.6; DB 9; Length 43;
Best Local Similarity 78.9%; Prev. No. 3.8e+05;
Matches 15; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

QY 1 GAAGGAGGATGAGGAGAGG 19
1 111 111 111111 11
16 GAGGAGGAGGAGGAGGAGG 16

RESULT 24
AZ848760/c
LOCUS      43 bp      DNA      linear      GSS 21-FEB-2001
DEFINITION      ZMO149G24R Mouse 10kb plasmid library Mus musculus genomic
clone M03280149G24 R; DNA sequence.
ACCESSION      AZ848760
VERSION      AZ848760.1 GI:11042159
KEYWORDS      GSS.
SOURCE      house mouse.
ORGANISM      Mus musculus
Eukaryota; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Mus.
1 (bases 1 to 43)
Dunn,D., Aoyagi,A., Barber,M., Beacorn,T., Duval,R., Hamil,C.,
Islam,H., Longacre,S., Mahmoud,M., Meenen,E., Pedersen,T., Reilly
M., Rose,M., Rose,R., Stokes,R., Tinney,A., von Niederhausern,A.
and Wright,D., Weiss,R.
Mouse whole genome scaffolding with paired end reads from 10kb
plasmid inserts
Unpublished (2001)
Contact: Robert R. Weiss
University of Utah
Rm. 408, Biomedical Polymers Research Bldg., 20 S. 2040 E., SU-5, UT
84112, USA
Tel: 801 585 5606
Fax: 801 585 7177
Email: ddunne@genetics.utah.edu
Insert Length: 10000 Std Error: 0.00
Plate: 0149 row: G column: 24
Seq primer: CACACAGGAAAACAGTATGAGT
Class: plasmid ends
High quality sequence stop: 43.
FEATURES
Location/Qualifiers
1..24
/organism "Mus musculus"
/strain "c57BL/6J"
/ab_xref "taxon:10090"
/cellone "M03280149G24"
/cellone lib "Mouse 10kb plasmid library"
/sex "Male"
/lab_host "E. coli strain XL10 Gold, 11 resistant, F'"
/notes "Vector: pMD29v; Purified genomic DNA from M.
musculus c57BL/6J (male) was obtained from the Jackson
Laboratory Mouse DNA Resource
(http://www.jax.org/resources/development/). The DNA
was hydrodynamically sheared by repeated passage through a
0.005 inch orifice at constant velocity. The sheared DNA
was blunt end repaired with T4 DNA polymerase and 14
polynucleotide kinase. Adaptor oligonucleotides were
ligated to the blunt ends in high molar excess. The
adapted DNA was purified and size selected for a 9.5 to

```

```

10.5 kb range using preparative agarose gel
electrophoresis. Vector DNA was prepared from a derivative
of pMD22 (q14742141q14742072.1); a copy number
inducible derivative of plasmid p1. The vector was ligated
with adaptors complementary to the insert adaptors and
purified. The sheared, adapted mouse DNA was annealed to
adapted vector DNA, and transformed into
chemically competent E. coli XL10 Gold (SRLatent) cells
and selected for ampicillin resistance."
BASE COUNT      1 4      40 4      1 4      1 1
ORIGIN
Query Match      63.0%; Score 12.6; DB 17; Length 43;
Best Local Similarity 78.9%; Prev. No. 3.8e+05;
Matches 15; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

QY 1 GAGGAGGAGGAGGAGGAGG 19
1 111 111 111111 11
16 GAGGAGGAGGAGGAGGAGG 16

RESULT 24
AZ960145
LOCUS      48 bp      DNA      linear      GSS 27-APR-2001
DEFINITION      ZMO242H0RF Mouse 10kb plasmid library Mus musculus genomic
clone M032200242H0R F; DNA sequence.
ACCESSION      AZ960145
VERSION      AZ960145.1 GI:11044372
KEYWORDS      GSS.
SOURCE      house mouse.
ORGANISM      Mus musculus
Eukaryota; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Mus.
1 (bases 1 to 48)
Dunn,D., Aoyagi,A., Barber,M., Beacorn,T., Duval,R., Hamil,C.,
Islam,H., Longacre,S., Mahmoud,M., Meenen,E., Pedersen,T., Reilly
M., Rose,M., Rose,R., Stokes,R., Tinney,A., von Niederhausern,A.
and Wright,D., Weiss,R.
Mouse whole genome scaffolding with paired end reads from 10kb
plasmid inserts
Unpublished (2001)
Contact: Robert R. Weiss
University of Utah
Rm. 408, Biomedical Polymers Research Bldg., 20 S. 2040 E., SU-5, UT
84112, USA
Tel: 801 585 5606
Fax: 801 585 7177
Email: ddunne@genetics.utah.edu
Insert Length: 10000 Std Error: 0.00
Plate: 0242 row: F column: 08
Seq primer: CACACAGGAAAACAGTATGAGT
Class: plasmid ends
High quality sequence stop: 48.
FEATURES
Location/Qualifiers
1..48
/organism "Mus musculus"
/strain "c57BL/6J"
/ab_xref "taxon:10090"
/cellone "M032200242H0R"
/cellone lib "Mouse 10kb plasmid library"
/sex "Female"
/lab_host "E. coli strain XL10 Gold, 11 resistant, F'"
/notes "Vector: pMD29v; Purified genomic DNA from M.
musculus c57BL/6J (female) was obtained from the Jackson
Laboratory Mouse DNA Resource
(http://www.jax.org/resources/development/). The DNA
was hydrodynamically sheared by repeated passage through a
0.005 inch orifice at constant velocity. The sheared DNA
was blunt end repaired with T4 DNA polymerase and 14
polynucleotide kinase. Adaptor oligonucleotides were
ligated to the blunt ends in high molar excess. The
adapted DNA was purified and size selected for a 9.5 to

```







GenCore version 5.1.4\_p5\_4578  
Copyright (c) 1993 - 2003 CompuGen Ltd.

OM nucleic - nucleic search, using sw model

Run on: March 18, 2003, 10:53:41 : Search time 809.508 Seconds  
(without alignments)  
400.142 Million cell updates/sec

Title: US-09-900-115-5  
Perfect score: 20  
Sequence: 1 qcacagttctctccqtda 20

Scoring table: IDENTIFY\_NUC  
Gapop 10.0 , gapext 1.0

Searched: 16154066 seqs, 8097743376 residues  
Total number of hits satisfying chosen parameters: 102860

Minimum DB seq length: 0  
Maximum DB seq length: 50

Post-processing: Minimum Match 100%  
Maximum Match 100%  
Listing first 1000 summaries

Database : EST:  
1: em\_estha:\*  
2: em\_esthum:\*  
3: em\_estin:\*  
4: em\_estnu:\*  
5: em\_estov:\*  
6: em\_estpl:\*  
7: em\_estro:\*  
8: em\_hic:\*  
9: qb\_est1:\*  
10: qb\_est2:\*  
11: qb\_hic:\*  
12: qb\_est3:\*  
13: qb\_est4:\*  
14: qb\_est5:\*  
15: em\_estfun:\*  
16: em\_estom:\*  
17: qb\_qss:\*  
18: em\_qss\_hum:\*  
19: em\_qss\_inv:\*  
20: em\_qss\_pln:\*  
21: em\_qss\_vit:\*  
22: em\_qss\_fun:\*  
23: em\_qss\_mam:\*  
24: em\_qss\_mus:\*  
25: em\_qss\_other:\*  
26: em\_qss\_pro:\*  
27: em\_qss\_rod:\*

Pred. No. is the number of results predicted by chance to have a  
score greater than or equal to the score of the result being printed,  
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query length	DB ID	Description
c 1	14	70.0	46 13 B1646968	B1646968 603278737
c 2	12.8	64.0	46 17 BH856719	BH856719 SALK_0792
c 3	12.8	64.0	50 9 AL628983	AL628983 AL628983
c 4	12.4	62.0	38 17 TA37H02P	TA453061 T. brucei
c 5	12.4	62.0	43 9 A1038493	A1038493 ox38a09.s
c 6	12.4	62.0	49 9 AL776769	AL776769 AL776769

AV957156	AV957156	33	10	AV957156
AH102383	AH102383	50	9	AH102383
AU106400	AU106400	50	9	AU106400
AU106401	AU106401	50	9	AU106401
AU106404	AU106404	50	9	AU106404
AU106406	AU106406	50	9	AU106406
AU106408	AU106408	50	9	AU106408
AU106409	AU106409	50	9	AU106409
AU106410	AU106410	50	9	AU106410
AU106412	AU106412	50	9	AU106412
AU106419	AU106419	50	9	AU106419
AU106421	AU106421	50	9	AU106421
AU106425	AU106425	50	9	AU106425
AU106430	AU106430	50	9	AU106430
AU106432	AU106432	50	9	AU106432
AU106433	AU106433	50	9	AU106433
AU106435	AU106435	50	9	AU106435
AU106438	AU106438	50	9	AU106438
AU106442	AU106442	50	9	AU106442
AU106444	AU106444	50	9	AU106444
AU106446	AU106446	50	9	AU106446
AU106452	AU106452	50	9	AU106452
AU106460	AU106460	50	9	AU106460
AU106464	AU106464	50	9	AU106464
AU106498	AU106498	50	9	AU106498
AU106499	AU106499	50	9	AU106499
AU106504	AU106504	50	9	AU106504
AU106505	AU106505	50	9	AU106505
AU106507	AU106507	50	9	AU106507
AU106508	AU106508	50	9	AU106508
AU106510	AU106510	50	9	AU106510
AU106511	AU106511	50	9	AU106511
AU106512	AU106512	50	9	AU106512
AU106527	AU106527	50	9	AU106527
AU106528	AU106528	50	9	AU106528
AU106529	AU106529	50	9	AU106529
AU106530	AU106530	50	9	AU106530
AU106531	AU106531	50	9	AU106531
AU106532	AU106532	50	9	AU106532
AU106533	AU106533	50	9	AU106533
AU106534	AU106534	50	9	AU106534
AU106536	AU106536	50	9	AU106536
AU106537	AU106537	50	9	AU106537
AU106539	AU106539	50	9	AU106539
AU106543	AU106543	50	9	AU106543
AL779895	AL779895	45	9	AL779895
AU106325	AU106325	50	9	AU106325
AU106347	AU106347	50	9	AU106347
AU106494	AU106494	50	9	AU106494
AU007710	AU007710	49	9	AU007710
AV968947	AV968947	49	10	AV968947
H51330	H51330	40	14	H51330
AA687683	AA687683	44	9	AA687683
AZ576556	AZ576556	49	17	AZ576556
BH792298	BH792298	49	17	BH792298
AU102882	AU102882	50	9	AU102882
AL477846	AL477846	24	17	TA196806Q
AZ467086	AZ467086	45	17	AZ467086
AL746980	AL746980	47	17	DR30F13S
BH814028	BH814028	48	17	BH814028
AA124006	AA124006	49	9	AA124006
AA868842	AA868842	22	9	AA868842
TA5A06P	TA5A06P	27	17	TA5A06P
BH854575	BH854575	33	17	BH854575
AZ775498	AZ775498	36	17	AZ775498
H86084	H86084	37	14	H86084
TA384C05P	TA384C05P	39	17	TA384C05P
AZ457924	AZ457924	40	17	AZ457924
BG505228	BG505228	42	12	BG505228
BG505235	BG505235	42	12	BG505235
TA137D11Q	TA137D11Q	42	17	TA137D11Q
AA410197	AA410197	46	9	AA410197
H44578	H44578	48	14	H44578

c	80	11.2	56.0	49	9	A1018541	A1018541	0024112.x	154	10.6	58.0	50	9	A0106494	A0106494
c	81	11.2	56.0	50	9	A0106449	A0106449		154	10.6	58.0	50	9	A0106494	A0106494
c	82	11.2	56.0	50	9	A0106467	A0106467		155	10.6	58.0	50	9	A0106495	A0106495
c	83	11.2	56.0	50	9	A0107912	A0107912		156	10.6	58.0	50	9	A0106496	A0106496
c	84	11	55.0	43	17	A0049817	A0049817	nbk00001b	157	10.6	58.0	50	9	A0106498	A0106498
c	85	11	55.0	46	9	A1682019	A1682019		158	10.6	58.0	50	9	A0106498	A0106498
c	86	11	55.0	47	17	A1771866	A1771866	Arakidops	159	10.6	58.0	50	9	A0106498	A0106498
c	87	11	55.0	37	9	AA956876	0151104.s		160	10.6	58.0	50	9	A0106497	A0106497
c	88	11	55.0	48	13	B1561718	604256891		161	10.6	58.0	50	9	A0106414	A0106414
c	89	11	55.0	40	9	A1159450	uc9801.x		162	10.6	58.0	50	9	A0106414	A0106414
c	90	11	55.0	43	9	A1683394	1x66106.x		163	10.6	58.0	50	9	A0106415	A0106415
c	91	11	55.0	43	14	W48487	zb19607.r1		164	10.6	58.0	50	9	A0106416	A0106416
c	92	11	55.0	43	14	N94937	zb131e02.s1		165	10.6	58.0	50	9	A0106417	A0106417
c	93	11	55.0	45	17	A2503949	A2503949	1M034124	166	10.6	58.0	50	9	A0106418	A0106418
c	94	11	55.0	47	17	A1771893	Arakidops		167	10.6	58.0	50	9	A0106420	A0106420
c	95	11	55.0	49	17	B0627713	1007074H1		168	10.6	58.0	50	9	A0106422	A0106422
c	96	11	55.0	50	9	A0102695	A0102695		169	10.6	58.0	50	9	A0106423	A0106423
c	97	11	55.0	50	9	A0103479	A0103479		170	10.6	58.0	50	9	A0106424	A0106424
c	98	11	55.0	50	9	A0104026	A0104026		171	10.6	58.0	50	9	A0106426	A0106426
c	99	11	55.0	50	9	A0104955	A0104955		172	10.6	58.0	50	9	A0106427	A0106427
c	100	11	55.0	50	9	A0104956	A0104956		173	10.6	58.0	50	9	A0106428	A0106428
c	101	11	55.0	50	9	A0104957	A0104957		174	10.6	58.0	50	9	A0106429	A0106429
c	102	11	55.0	50	9	A0104958	A0104958		175	10.6	58.0	50	9	A0106431	A0106431
c	103	11	55.0	50	9	A0104960	A0104960		176	10.6	58.0	50	9	A0106439	A0106439
c	104	11	55.0	50	9	A0104961	A0104961		177	10.6	58.0	50	9	A0106440	A0106440
c	105	11	55.0	50	9	A0104962	A0104962		178	10.6	58.0	50	9	A0106441	A0106441
c	106	11	55.0	50	9	A0104963	A0104963		179	10.6	58.0	50	9	A0106443	A0106443
c	107	11	55.0	50	9	A0108036	A0108036		180	10.6	58.0	50	9	A0106445	A0106445
c	108	10.8	54.0	29	17	A2309154	1M0013820		181	10.6	58.0	50	9	A0106451	A0106451
c	109	10.8	54.0	30	9	A0254131	A0254131		182	10.6	58.0	50	9	A0106455	A0106455
c	110	10.8	54.0	41	17	A2475800	1M0294610		183	10.6	58.0	50	9	A0106456	A0106456
c	111	10.8	54.0	41	17	B0011495	B0011495	3630235.3.4	184	10.6	58.0	50	9	A0106457	A0106457
c	112	10.8	54.0	46	9	A1463345	v661008.x		185	10.6	58.0	50	9	A0106459	A0106459
c	113	10.8	54.0	47	10	AV959474	AV959474		186	10.6	58.0	50	9	A0106461	A0106461
c	114	10.8	54.0	47	17	B0005031	1000065B00		187	10.6	58.0	50	9	A0106462	A0106462
c	115	10.8	54.0	49	9	A1485645	md74c04.x		188	10.6	58.0	50	9	A0106465	A0106465
c	116	10.8	54.0	50	9	A1057597	cy34306.x		189	10.6	58.0	50	9	A0106470	A0106470
c	117	10.8	54.0	50	9	A0104130	A0104130		190	10.6	58.0	50	9	A0106471	A0106471
c	118	10.8	54.0	50	9	A0105744	A0105744		191	10.6	58.0	50	9	A0106472	A0106472
c	119	10.8	54.0	50	9	A0107208	A0107208		192	10.6	58.0	50	9	A0106474	A0106474
c	120	10.8	54.0	50	9	A0107215	A0107215		193	10.6	58.0	50	9	A0106475	A0106475
c	121	10.8	54.0	50	17	A2768403	A2768403	1M0568015	194	10.6	58.0	50	9	A0106476	A0106476
c	122	10.6	53.0	31	9	A1142775	qa26a02.s		195	10.6	58.0	50	9	A0106477	A0106477
c	123	10.6	53.0	31	9	A1366379	ao82h02.x		196	10.6	58.0	50	9	A0106478	A0106478
c	124	10.6	53.0	31	14	138676	148676	y601101.s1	197	10.6	58.0	50	9	A0106479	A0106479
c	125	10.6	53.0	33	17	A2610724	A2610724	1M03436K24	198	10.6	58.0	50	9	A0106480	A0106480
c	126	10.6	53.0	43	17	A2877631	A2877631	36300314.3	199	10.6	58.0	50	9	A0106481	A0106481
c	127	10.6	53.0	42	17	B0895696	B0895696	3526.1.35	200	10.6	58.0	50	9	A0106482	A0106482
c	128	10.6	53.0	43	9	A1610885	1p21q04.x		201	10.6	58.0	50	9	A0106484	A0106484
c	129	10.6	53.0	43	17	A2437743	A2437743	1M0226F06	202	10.6	58.0	50	9	A0106484	A0106484
c	130	10.6	53.0	44	13	B1050185	B1050185		203	10.6	58.0	50	9	A0106485	A0106485
c	131	10.6	53.0	45	12	B6281247	B6281247	602401709	204	10.6	58.0	50	9	A0106486	A0106486
c	132	10.6	53.0	46	9	A1124140	SW053367AN		205	10.6	58.0	50	9	A0106487	A0106487
c	133	10.6	53.0	46	9	A1581136	A1581136	11531035.x	206	10.6	58.0	50	9	A0106488	A0106488
c	134	10.6	53.0	46	10	AV961488	AV961488		207	10.6	58.0	50	9	A0106489	A0106489
c	135	10.6	53.0	47	9	A1645485	A1645485		208	10.6	58.0	50	9	A0106491	A0106491
c	136	10.6	53.0	47	17	B0851959	SALK_0737		209	10.6	58.0	50	9	A0106492	A0106492
c	137	10.6	53.0	48	13	B1094824	B1094824	EST_C034N	210	10.6	58.0	50	9	A0106493	A0106493
c	138	10.6	53.0	48	17	A2863545	A2863545	2M0171114	211	10.6	58.0	50	9	A0106495	A0106495
c	139	10.6	53.0	49	9	A1641229	A1641229		212	10.6	58.0	50	9	A0106496	A0106496
c	140	10.6	53.0	49	9	A0243854	A0243854		213	10.6	58.0	50	9	A0106500	A0106500
c	141	10.6	53.0	49	12	B6389537	B6389537	60251794.3	214	10.6	58.0	50	9	A0106502	A0106502
c	142	10.6	53.0	50	9	A0103437	A0103437		215	10.6	58.0	50	9	A0106506	A0106506
c	143	10.6	53.0	50	9	A0104792	A0104792		216	10.6	58.0	50	9	A0106513	A0106513
c	144	10.6	53.0	50	9	A0104795	A0104795		217	10.6	58.0	50	9	A0106517	A0106517
c	145	10.6	53.0	50	9	A0105853	A0105853		218	10.6	58.0	50	9	A0106518	A0106518
c	146	10.6	53.0	50	9	A0106431	A0106431		219	10.6	58.0	50	9	A0106519	A0106519
c	147	10.6	53.0	50	9	A0106434	A0106434		220	10.6	58.0	50	9	A0106520	A0106520
c	148	10.6	53.0	50	9	A0106436	A0106436		221	10.6	58.0	50	9	A0106522	A0106522
c	149	10.6	53.0	50	9	A0106438	A0106438		222	10.6	58.0	50	9	A0106523	A0106523
c	150	10.6	53.0	50	9	A0106421	A0106421		223	10.6	58.0	50	9	A0106524	A0106524
c	151	10.6	53.0	50	9	A0106423	A0106423		224	10.6	58.0	50	9	A0106525	A0106525
c	152	10.6	53.0	50	9	A0106424	A0106424		225	10.6	58.0	50	9	A0106542	A0106542

c 226	10.6	53.0	50	9	AU107443	AU107443	299	10	50.0	27	17	BH848156	BH848156	SAIK_0675
c 227	10.6	54.0	50	14	H55458	HR220397	c 400	10	50.0	28	17	BH792257	BH792257	SAIK_0641
c 228	10.4	52.0	25	9	A1643068	mo96a04.x	c 401	10	50.0	28	17	TA250805P	TA250805P	T. Bruce1
c 229	10.4	52.0	27	17	AZ433891	1M0220006	c 302	10	50.0	30	17	AZ486857	AZ486857	1M0415024
c 230	10.4	52.0	31	17	AZ798762	2M0055C18	c 303	10	50.0	31	9	A1342893	A1342893	qo32503.x
c 231	10.4	52.0	34	9	A0256102	AU256102	c 304	10	50.0	33	17	AZ486766	AZ486766	1M0415H10
c 232	10.4	52.0	36	12	BH782308	602106095	c 305	10	50.0	34	9	A1958203	A1958203	1c25011.y
c 233	10.4	52.0	37	9	A1610223	tp15q04.x	c 306	10	50.0	36	10	AV832536	AV832536	AV842546
c 234	10.4	52.0	40	9	AA641270	nr78a04.s	c 307	10	50.0	36	17	AZ425719	AZ425719	1M0205N21
c 235	10.4	52.0	40	13	BJ034027	B1034027	c 308	10	50.0	36	17	AL762128	AL762128	Arabidops
c 236	10.4	52.0	40	17	BH633074	BH633074	c 309	10	50.0	37	9	AA991223	AA991223	0840001.s
c 237	10.4	52.0	43	9	A1798406	tr34f01.x	c 310	10	50.0	37	9	AA493397	AA493397	nc48005.s
c 238	10.4	52.0	46	17	AZ511280	1M0356E14	c 311	10	50.0	38	9	AA209035	AA209035	mw74b12.r
c 239	10.4	52.0	46	17	AZ589035	1M0397D14	c 312	10	50.0	38	12	BF101627	BF101627	60175454H
c 240	10.4	52.0	47	17	AZ482906	1M0308A18	c 313	10	50.0	38	14	R37318	R37318	y156b07.s1
c 241	10.4	52.0	47	17	BH813761	BH813761	c 314	10	50.0	39	10	AV949425	AV949425	AV949425
c 242	10.4	52.0	48	9	AL784578	AL784578	c 315	10	50.0	41	17	AZ797364	AZ797364	2M0055A21
c 243	10.4	52.0	49	12	BF203474	BF203474	c 316	10	50.0	42	10	AV833088	AV833088	AV833088
c 244	10.4	52.0	49	17	AZ790187	AZ790187	c 317	10	50.0	42	10	AV949395	AV949395	AV949395
c 245	10.4	52.0	49	17	TA170E02P	TA170E02P	c 318	10	50.0	42	10	AW063157	AW063157	1M0408.KK
c 246	10.4	52.0	50	9	AU102915	AU102915	c 319	10	50.0	44	14	D18695	D18695	MJDS01757
c 247	10.4	52.0	50	9	AU104942	AU104942	c 320	10	50.0	44	17	AQ096085	AQ096085	HS_4040.A
c 248	10.4	52.0	50	9	AU105456	AU105456	c 321	10	50.0	44	17	AZ661883	AZ661883	1M040K11
c 249	10.4	52.0	50	9	AU106309	AU106309	c 322	10	50.0	44	17	AZ806103	AZ806103	2M0067N19
c 250	10.4	52.0	50	9	AU107246	AU107246	c 323	10	50.0	45	10	BE393504	BE393504	601411094
c 251	10.4	52.0	50	9	AU107430	AU107430	c 324	10	50.0	45	13	BJ000444	BJ000444	R10006444
c 252	10.4	52.0	50	9	AU107431	AU107431	c 325	10	50.0	45	17	BH810415	BH810415	SAIK_0475
c 253	10.4	52.0	50	9	AU107677	AU107677	c 326	10	50.0	45	17	CNS0711K	CNS0711K	Arabidops
c 254	10.4	52.0	50	14	BJ035910	BJ035910	c 327	10	50.0	46	9	A1357720	A1357720	qy73403.x
c 255	10.4	52.0	50	17	DR24E15S	DR24E15S	c 328	10	50.0	46	9	AA428129	AA428129	2W50306.s
c 256	10.2	51.0	14	17	AZ643528	AZ643528	c 329	10	50.0	46	9	AA518962	AA518962	V105007.r
c 257	10.2	51.0	25	9	A1378947	tc40b07.x	c 330	10	50.0	46	10	BE257952	BE257952	601109788
c 258	10.2	51.0	25	9	AL744368	AL744368	c 331	10	50.0	46	17	AZ373810	AZ373810	1M0126E17
c 259	10.2	51.0	26	17	BH863120	BH863120	c 332	10	50.0	47	17	BH865082	BH865082	SAIK_0474
c 260	10.2	51.0	28	17	TA188D07P	TA188D07P	c 333	10	50.0	48	17	CNS0763Q	CNS0763Q	Arabidops
c 261	10.2	51.0	34	9	A1020003	na95h03.r	c 334	10	50.0	49	9	AA025722	AA025722	z686111.s
c 262	10.2	51.0	34	17	AZ773199	AZ773199	c 335	10	50.0	49	9	AA645079	AA645079	my53403.r
c 263	10.2	51.0	37	13	BJ049360	BJ049360	c 336	10	50.0	49	10	AW396264	AW396264	sb26305.y
c 264	10.2	51.0	38	17	AZ442524	AZ442524	c 337	10	50.0	49	12	BG341711	BG341711	6024634.x
c 265	10.2	51.0	40	9	AA973004	AA973004	c 338	10	50.0	49	12	BE736219	BE736219	601407155
c 266	10.2	51.0	40	9	AA975071	AA975071	c 339	10	50.0	49	14	C02410	C02410	HUMS00122H
c 267	10.2	51.0	40	17	AL756512	AL756512	c 340	10	50.0	49	17	AZ604991	AZ604991	1M0426A11
c 268	10.2	51.0	41	17	AL798923	AL798923	c 341	10	50.0	49	17	BH792298	BH792298	SAIK_0644
c 269	10.2	51.0	41	12	BG426222	BG426222	c 342	10	50.0	50	9	AA108275	AA108275	EST0618.r
c 270	10.2	51.0	43	17	AZ310534	AZ310534	c 343	10	50.0	50	9	AU102629	AU102629	AU102629
c 271	10.2	51.0	46	9	AA052407	AA052407	c 344	10	50.0	50	9	AU104195	AU104195	AU104195
c 272	10.2	51.0	46	9	AA828238	AA828238	c 345	10	50.0	50	9	AU103670	AU103670	AU103670
c 273	10.2	51.0	46	17	AZ372437	AZ372437	c 346	10	50.0	50	9	AU104374	AU104374	AU104374
c 274	10.2	51.0	46	17	AL754879	AL754879	c 347	10	50.0	50	9	AU105565	AU105565	AU105565
c 275	10.2	51.0	46	17	AL765439	AL765439	c 348	10	50.0	50	9	AU105597	AU105597	AU105597
c 276	10.2	51.0	47	17	AL764714	AL764714	c 349	10	50.0	50	9	AU105602	AU105602	AU105602
c 277	10.2	51.0	49	9	AA946278	AA946278	c 350	10	50.0	50	9	AU105606	AU105606	AU105606
c 278	10.2	51.0	49	9	A1558595	1b68a10.y	c 351	10	50.0	50	9	AU106774	AU106774	AU106774
c 279	10.2	51.0	49	17	AL765211	AL765211	c 352	10	50.0	50	9	AU107152	AU107152	AU107152
c 280	10.2	51.0	50	9	AU102743	AU102743	c 353	10	50.0	50	9	AU107153	AU107153	AU107153
c 281	10.2	51.0	50	9	AU103482	AU103482	c 354	9.8	49.0	23	14	D19998	D19998	HUMS000968
c 282	10.2	51.0	50	9	AU103484	AU103484	c 355	9.8	49.0	25	14	B36628	B36628	mb67e03.r1
c 283	10.2	51.0	50	9	AU105443	AU105443	c 356	9.8	49.0	27	17	BH792336	BH792336	SAIK_0644
c 284	10.2	51.0	50	9	AU105742	AU105742	c 357	9.8	49.0	30	17	AZ423436	AZ423436	1M0202101
c 285	10.2	51.0	50	9	AU106308	AU106308	c 358	9.8	49.0	33	13	B1052224	B1052224	BJ052224
c 286	10.2	51.0	50	9	AU106313	AU106313	c 359	9.8	49.0	35	17	AZ838499	AZ838499	2M0134P10
c 287	10.2	51.0	50	9	AU106317	AU106317	c 360	9.8	49.0	36	10	AV832904	AV832904	AV832904
c 288	10.2	51.0	50	9	AU106319	AU106319	c 361	9.8	49.0	38	17	BH865875	BH865875	SAIK_10000
c 289	10.2	51.0	50	9	AU106322	AU106322	c 362	9.8	49.0	38	17	BH865882	BH865882	SAIK_10000
c 290	10.2	51.0	50	9	AU106325	AU106325	c 363	9.8	49.0	38	17	AL767019	AL767019	Arabidops
c 291	10.2	51.0	50	9	AU106403	AU106403	c 364	9.8	49.0	49	10	BE353115	BE353115	601241241
c 292	10.2	51.0	50	9	AU106541	AU106541	c 365	9.8	49.0	49	10	H84012	H84012	yy88a10.r1
c 293	10.2	51.0	50	9	AU106608	AU106608	c 366	9.8	49.0	39	17	AZ627175	AZ627175	1M0407012
c 294	10.2	51.0	50	9	AU106939	AU106939	c 367	9.8	49.0	39	17	BH811645	BH811645	SAIK_0595
c 295	10.2	51.0	50	9	AU107888	AU107888	c 368	9.8	49.0	40	9	A1151322	A1151322	3p74011.x
c 296	10.2	51.0	50	9	AU107889	AU107889	c 369	9.8	49.0	40	9	A126457	A126457	aq65a07.x
c 297	10.2	51.0	50	17	AZ949606	2M0213104	c 370	9.8	49.0	40	9	A1306379	A1306379	3p12005.x
c 298	10	50.0	21	17	AZ583481	1M0378K06	c 371	9.8	49.0	40	9	A1306379	A1306379	3p12005.x

472	9.8	49.0	40	14	WR7969	WR7969, m16, a0.2, r.1
473	9.8	49.0	41	17	AZ787161	AZ787161, 2M0033003
474	9.8	49.0	42	17	BH811305	BH811305, SALK 0582
475	9.8	49.0	43	9	A1943364	A1943364, 1c7woc07.y
476	9.8	49.0	44	9	AA424162	AA424162, v06001.1
477	9.8	49.0	43	13	B0001433	B0001433, B0001433
478	9.8	49.0	43	17	AZ597699	AZ597699, 1M0411623
479	9.8	49.0	43	17	BH648192	BH648192, 100802080
480	9.8	49.0	44	17	A0255641	A0255641, 1c20564.3
481	9.8	49.0	44	17	BH848112	BH848112, SALK 0675
482	9.8	49.0	45	14	D43088	D43088, D43088, R100
483	9.8	49.0	46	9	A1096608	A1096608, SW916CAN
484	9.8	49.0	46	9	A1153463	A1153463, uc5, a0.1.1
485	9.8	49.0	46	9	A1355818	A1355818, q102a02.x
486	9.8	49.0	47	14	197439	197439, Y557407.1.1
487	9.8	49.0	47	17	AZ412766	AZ412766, 1M0028812
488	9.8	49.0	47	17	AZ441255	AZ441255, 1M0073004
489	9.8	49.0	48	12	B0435429	B0435429, 60250701.3
490	9.8	49.0	48	14	R03899	R03899, PK12H10.1.1
491	9.8	49.0	50	9	A0102271	A0102271, A0102271
492	9.8	49.0	50	9	A0102959	A0102959, A0102959
493	9.8	49.0	50	9	A0103916	A0103916, A0103916
494	9.8	49.0	50	9	A0104917	A0104917, A0104917
495	9.8	49.0	50	9	A0105852	A0105852, A0105852
496	9.8	49.0	50	9	A0107601	A0107601, A0107601
497	9.8	49.0	50	9	A0107602	A0107602, A0107602
498	9.8	49.0	50	9	A0107670	A0107670, A0107670
499	9.8	49.0	50	9	A0107672	A0107672, A0107672
500	9.8	49.0	50	9	A0107675	A0107675, A0107675
501	9.8	49.0	50	9	A0107678	A0107678, A0107678
502	9.8	49.0	50	9	A0107679	A0107679, A0107679
503	9.8	49.0	50	9	A0107680	A0107680, A0107680
504	9.8	49.0	50	9	A0107681	A0107681, A0107681
505	9.8	49.0	50	9	A0107686	A0107686, A0107686
506	9.8	49.0	50	9	A0107688	A0107688, A0107688
507	9.8	49.0	50	9	AA269906	AA269906, va60h12.1
508	9.8	49.0	50	13	B1175073	B1175073, GSTR00709
509	9.8	49.0	50	14	H55458	H55458, CHR220307.c
510	9.8	49.0	23	17	AZ481511	AZ481511, 1M0403114
511	9.6	48.0	25	9	A1620546	A1620546, t095b004.x
512	9.6	48.0	27	17	AZ806595	AZ806595, 2M0069H1.3
513	9.6	48.0	31	9	AA999814	AA999814, 0842b02.8
514	9.6	48.0	32	9	A0260268	A0260268, A0260268
515	9.6	48.0	33	17	AZ653870	AZ653870, 1M0527016
516	9.6	48.0	33	17	BH853380	BH853380, SALK 0769
517	9.6	48.0	34	9	AA178805	AA178805, ms15a05.1
518	9.6	48.0	34	13	B1603357	B1603357, 603247225
519	9.6	48.0	34	14	W85364	W85364, m148102.1.1
520	9.6	48.0	35	10	AV963962	AV963962, AV963962
521	9.6	48.0	36	17	AZ791419	AZ791419, 2M004101.3
522	9.6	48.0	37	9	AA908535	AA908535, 08013h12.s
523	9.6	48.0	37	9	AA178805	AA178805, ms15a05.1
524	9.6	48.0	37	17	AZ645667	AZ645667, 1M0511c16
525	9.6	48.0	38	13	B1820611	B1820611, 603034855
526	9.6	48.0	38	13	B1077998	B1077998, B1077998
527	9.6	48.0	38	17	AZ766530	AZ766530, 1M0564K08
528	9.6	48.0	38	17	AZ815373	AZ815373, 2M0083M06
529	9.6	48.0	39	10	AV846220	AV846220, AV846220
530	9.6	48.0	39	17	AZ786602	AZ786602, 2M0032M09
531	9.6	48.0	39	17	AZ851262	AZ851262, 2M0154121
532	9.6	48.0	40	9	AA953179	AA953179, 0473b10.s
533	9.6	48.0	40	9	A1444400	A1444400, B04005.x
534	9.6	48.0	40	9	A1972180	A1972180, B063010.x
535	9.6	48.0	40	14	N933757	N933757, 2b64b06.s1
536	9.6	48.0	40	17	AZ599992	AZ599992, 1M0416008
537	9.6	48.0	41	9	AA676358	AA676358, z122b11.s
538	9.6	48.0	41	17	AZ798444	AZ798444, 2M0055615
539	9.6	48.0	42	9	A1634179	A1634179, ALG34179
540	9.6	48.0	42	10	AV838404	AV838404, AV838404
541	9.6	48.0	43	9	A1140282	A1140282, 3c21d05.x
542	9.6	48.0	43	9	AA513470	AA513470, 0c00c09.s
543	9.6	48.0	43	13	B0001161	B0001161, B0001161
544	9.6	48.0	43	17	BH862454	BH862454, SALK 0899
545	9.6	48.0	44	17	AZ769895	AZ769895, 1M0571A04
546	9.6	48.0	44	17	AZ4310132	AZ4310132, 2M0018092
547	9.6	48.0	44	17	AZ823131	AZ823131, 2M0097H01
548	9.6	48.0	45	9	AA811409	AA811409, 0302107.s
549	9.6	48.0	46	9	AA049722	AA049722, m130c10.1
550	9.6	48.0	46	9	AA074866	AA074866, 0457c12.s
551	9.6	48.0	46	9	AA005046	AA005046, 0184102.s
552	9.6	48.0	46	9	A1863649	A1863649, wh7, 0002.x
553	9.6	48.0	46	17	AZ64477	AZ64477, 1M0512302
554	9.6	48.0	46	17	AZ769895	AZ769895, 1M0571A04
555	9.6	48.0	47	17	AZ431005	AZ431005, 1M0215H15
556	9.6	48.0	47	17	BH853380	BH853380, SALK 0859
557	9.6	48.0	48	17	BH826386	BH826386, 100711480
558	9.6	48.0	49	9	AA790133	AA790133, v071d11.1
559	9.6	48.0	49	9	AA894674	AA894674, 0127a03.s
560	9.6	48.0	49	9	A1284374	A1284374, 0082312.x
561	9.6	48.0	49	9	A1416342	A1416342, s016002.y
562	9.6	48.0	49	9	AA280723	AA280723, 2896004.s
563	9.6	48.0	49	14	N41715	N41715, Y515c11.s1
564	9.6	48.0	50	9	AA611122	AA611122, M0306V1H0
565	9.6	48.0	50	9	A0009984	A0009984, A0009984
566	9.6	48.0	50	9	A0102375	A0102375, A0102375
567	9.6	48.0	50	9	A0102687	A0102687, A0102687
568	9.6	48.0	50	9	A0102688	A0102688, A0102688
569	9.6	48.0	50	9	A0102689	A0102689, A0102689
570	9.6	48.0	50	9	A0102690	A0102690, A0102690
571	9.6	48.0	50	9	A0102692	A0102692, A0102692
572	9.6	48.0	50	9	A0102696	A0102696, A0102696
573	9.6	48.0	50	9	A0102697	A0102697, A0102697
574	9.6	48.0	50	9	A0102698	A0102698, A0102698
575	9.6	48.0	50	9	A0102700	A0102700, A0102700
576	9.6	48.0	50	9	A0102994	A0102994, A0102994
577	9.6	48.0	50	9	A0104461	A0104461, A0104461
578	9.6	48.0	50	9	A0104809	A0104809, A0104809
579	9.6	48.0	50	9	A0104810	A0104810, A0104810
580	9.6	48.0	50	9	A0104811	A0104811, A0104811
581	9.6	48.0	50	9	A0104904	A0104904, A0104904
582	9.6	48.0	50	9	A0106326	A0106326, A0106326
583	9.6	48.0	50	9	A0106447	A0106447, A0106447
584	9.6	48.0	50	9	A0106453	A0106453, A0106453
585	9.6	48.0	50	9	A0106490	A0106490, A0106490
586	9.6	48.0	50	9	A0107022	A0107022, A0107022
587	9.6	48.0	50	9	A0107255	A0107255, A0107255
588	9.6	48.0	50	13	B0425819	B0425819, s0h1240H.c
589	9.6	48.0	50	17	AZ351333	AZ351333, 1M0089617
590	9.6	48.0	50	17	BH813383	BH813383, SALK 0640
591	9.6	48.0	50	17	TA179002B	TA179002B, 1c100c.1
592	9.6	47.0	20	17	AZ951314	AZ951314, 2M0215c12
593	9.6	47.0	22	9	A1344786	A1344786, 11101079.x
594	9.6	47.0	24	17	AZ309470	AZ309470, 1M0013113
595	9.6	47.0	25	17	AZ783421	AZ783421, 2M0025008
596	9.6	47.0	26	17	TA110812D	TA110812D, 1c100c.1
597	9.6	47.0	27	17	AZ439160	AZ439160, 1M0220H12
598	9.6	47.0	28	17	AZ629884	AZ629884, 1M0484009
599	9.6	47.0	29	17	BH864113	BH864113, SALK 0953
600	9.6	47.0	30	17	AZ478227	AZ478227, 1M0299F12
601	9.6	47.0	30	17	AZ603489	AZ603489, 1M0422H21
602	9.6	47.0	31	9	AA689130	AA689130, v152410.1
603	9.6	47.0	41	9	AA522818	AA522818, 0m54409.s
604	9.6	47.0	41	9	A1689315	A1689315, 1894107.x
605	9.6	47.0	41	13	B1768049	B1768049, 603056352
606	9.6	47.0	41	13	BH859230	BH859230, 00072.2.H
607	9.6	47.0	42	17	AZ824038	AZ824038, 2M0076M17
608	9.6	47.0	43	14	044219	044219, EN043219.AS
609	9.6	47.0	43	17	AZ785738	AZ785738, 2M0029422
610	9.6	47.0	43	17	BH862444	BH862444, SALK 1009
611	9.6	47.0	44	17	AA572386	AA572386, v192b10.1
612	9.6	47.0	44	17	AZ607337	AZ607337, EP222625
613	9.6	47.0	44	17	AZ628598	AZ628598, 1M0480A03
614	9.6	47.0	44	17	BH852447	BH852447, SALK 0746
615	9.6	47.0	45	9	A1679668	A1679668, A1679668
616	9.6	47.0	45	9	AL785318	AL785318, AL785318
617	9.6	47.0	45	9	AL802117	AL802117, AL802117

c 518	9.4	47.0	9.4	591	9.4	47.0	48	9	AA526765	AA526765	ni54b11.s
c 519	9.4	47.0	9.4	592	9.4	47.0	48	10	AV834340	AV834340	AV834340
c 520	9.4	47.0	9.4	593	9.4	47.0	48	17	AZ786204	AZ786204	2M0041N04
c 521	9.4	47.0	9.4	594	9.4	47.0	49	9	AA739463	AA739463	vv54a11.1
c 522	9.4	47.0	9.4	595	9.4	47.0	49	9	AA1159805	AA1159805	q07c05.x
c 523	9.4	47.0	9.4	596	9.4	47.0	49	9	AA108149	AA108149	ml58h07.1
c 524	9.4	47.0	9.4	597	9.4	47.0	49	9	AI558595	AI558595	1b6ka10.y
c 525	9.4	47.0	9.4	598	9.4	47.0	49	9	AL779174	AL779174	AL779174
c 526	9.4	47.0	9.4	599	9.4	47.0	49	9	AA238379	AA238379	mx78c09.f
c 527	9.4	47.0	9.4	600	9.4	47.0	49	10	BE578991	BE578991	rkohe10.y
c 528	9.4	47.0	9.4	601	9.4	47.0	49	14	H23825	H23825	yn071a04.sl
c 529	9.4	47.0	9.4	602	9.4	47.0	49	17	AZ427327	AZ427327	1M0209911
c 530	9.4	47.0	9.4	603	9.4	47.0	49	17	BH800310	BH800310	1008124H0
c 531	9.4	47.0	9.4	604	9.4	47.0	49	17	CNS07FD2	CNS07FD2	AL608345
c 532	9.4	47.0	9.4	605	9.4	47.0	49	17	TA264C10P	TA264C10P	Anopheles
c 533	9.4	47.0	9.4	606	9.4	47.0	50	9	AL681402	AL681402	T. brucei
c 534	9.4	47.0	9.4	607	9.4	47.0	50	9	AL787711	AL787711	AL681402
c 535	9.4	47.0	9.4	608	9.4	47.0	50	9	AL790657	AL790657	AL787711
c 536	9.4	47.0	9.4	609	9.4	47.0	50	9	AL795164	AL795164	AL790657
c 537	9.4	47.0	9.4	610	9.4	47.0	50	9	AL795735	AL795735	AL795164
c 538	9.4	47.0	9.4	611	9.4	47.0	50	9	AL799119	AL799119	AL795735
c 539	9.4	47.0	9.4	612	9.4	47.0	50	9	AL800319	AL800319	AL799119
c 540	9.4	47.0	9.4	613	9.4	47.0	50	9	AL102649	AL102649	AL800319
c 541	9.4	47.0	9.4	614	9.4	47.0	50	9	AL103009	AL103009	AL102649
c 542	9.4	47.0	9.4	615	9.4	47.0	50	9	AL103023	AL103023	AL103009
c 543	9.4	47.0	9.4	616	9.4	47.0	50	9	AL103024	AL103024	AL103023
c 544	9.4	47.0	9.4	617	9.4	47.0	50	9	AL103026	AL103026	AL103024
c 545	9.4	47.0	9.4	618	9.4	47.0	50	9	AL104025	AL104025	AL103026
c 546	9.4	47.0	9.4	619	9.4	47.0	50	9	AL104070	AL104070	AL104025
c 547	9.4	47.0	9.4	620	9.4	47.0	50	9	AL104071	AL104071	AL104070
c 548	9.4	47.0	9.4	621	9.4	47.0	50	9	AL104325	AL104325	AL104071
c 549	9.4	47.0	9.4	622	9.4	47.0	50	9	AL104326	AL104326	AL104325
c 550	9.4	47.0	9.4	623	9.4	47.0	50	9	AL104327	AL104327	AL104326
c 551	9.4	47.0	9.4	624	9.4	47.0	50	9	AL104624	AL104624	AL104327
c 552	9.4	47.0	9.4	625	9.4	47.0	50	9	AL104965	AL104965	AL104624
c 553	9.4	47.0	9.4	626	9.4	47.0	50	9	AL105016	AL105016	AL104965
c 554	9.4	47.0	9.4	627	9.4	47.0	50	9	AL105285	AL105285	AL105016
c 555	9.4	47.0	9.4	628	9.4	47.0	50	9	AL105494	AL105494	AL105285
c 556	9.4	47.0	9.4	629	9.4	47.0	50	9	AL105989	AL105989	AL105494
c 557	9.4	47.0	9.4	630	9.4	47.0	50	9	AL106027	AL106027	AL105989
c 558	9.4	47.0	9.4	631	9.4	47.0	50	9	AL106514	AL106514	AL106027
c 559	9.4	47.0	9.4	632	9.4	47.0	50	9	AL106526	AL106526	AL106514
c 560	9.4	47.0	9.4	633	9.4	47.0	50	9	AL106715	AL106715	AL106526
c 561	9.4	47.0	9.4	634	9.4	47.0	50	9	AL106716	AL106716	AL106715
c 562	9.4	47.0	9.4	635	9.4	47.0	50	9	AL106717	AL106717	AL106716
c 563	9.4	47.0	9.4	636	9.4	47.0	50	9	AL106718	AL106718	AL106717
c 564	9.4	47.0	9.4	637	9.4	47.0	50	9	AL106719	AL106719	AL106718
c 565	9.4	47.0	9.4	638	9.4	47.0	50	9	AL106720	AL106720	AL106719
c 566	9.4	47.0	9.4	639	9.4	47.0	50	9	AL106721	AL106721	AL106720
c 567	9.4	47.0	9.4	640	9.4	47.0	50	9	AL106722	AL106722	AL106721
c 568	9.4	47.0	9.4	641	9.4	47.0	50	9	AL106723	AL106723	AL106722
c 569	9.4	47.0	9.4	642	9.4	47.0	50	9	AL106724	AL106724	AL106723
c 570	9.4	47.0	9.4	643	9.4	47.0	50	9	AL106725	AL106725	AL106724
c 571	9.4	47.0	9.4	644	9.4	47.0	50	9	AL106726	AL106726	AL106725
c 572	9.4	47.0	9.4	645	9.4	47.0	50	9	AL106727	AL106727	AL106726
c 573	9.4	47.0	9.4	646	9.4	47.0	50	9	AL106729	AL106729	AL106727
c 574	9.4	47.0	9.4	647	9.4	47.0	50	9	AL106733	AL106733	AL106729
c 575	9.4	47.0	9.4	648	9.4	47.0	50	9	AL106734	AL106734	AL106733
c 576	9.4	47.0	9.4	649	9.4	47.0	50	9	AL106735	AL106735	AL106734
c 577	9.4	47.0	9.4	650	9.4	47.0	50	9	AL106830	AL106830	AL106735
c 578	9.4	47.0	9.4	651	9.4	47.0	50	9	AL106831	AL106831	AL106830
c 579	9.4	47.0	9.4	652	9.4	47.0	50	9	AL106832	AL106832	AL106831
c 580	9.4	47.0	9.4	653	9.4	47.0	50	9	AL106833	AL106833	AL106832
c 581	9.4	47.0	9.4	654	9.4	47.0	50	9	AL107447	AL107447	AL106833
c 582	9.4	47.0	9.4	655	9.4	47.0	50	9	AL107448	AL107448	AL107447
c 583	9.4	47.0	9.4	656	9.4	47.0	50	9	AL107494	AL107494	AL107448
c 584	9.4	47.0	9.4	657	9.4	47.0	50	14	H80861	H80861	AL107494
c 585	9.4	47.0	9.4	658	9.4	47.0	50	14	T47394	T47394	YB158108.sl
c 586	9.4	47.0	9.4	659	9.4	47.0	50	17	AZ828565	AZ828565	2M0105108
c 587	9.4	47.0	9.4	660	9.4	47.0	50	17	AZ942114	AZ942114	2M0202508
c 588	9.4	47.0	9.4	661	9.4	47.0	50	17	BH814292	BH814292	SAIK.0961
c 589	9.4	47.0	9.4	662	9.4	47.0	50	17	BH852799	BH852799	SAIK.0756
c 590	9.4	47.0	9.4	663	9.4	47.0	50	17	TA101G05P	TA101G05P	AL458883 T. brucei

664	9.2	46.0	18	13	HC926609	HC51-1-G	HC926609	HC51-1-G	7.47	9.2	46.0	43	17	AZ548434	AZ548434	1M0489E15
665	9.2	46.0	19	17	AZ775273	AZ775273	AZ775273	AZ775273	7.48	9.2	46.0	43	17	HB609433	HB609433	HB609433
666	9.2	46.0	20	17	AZ799032	AZ799032	AZ799032	AZ799032	7.49	9.2	46.0	43	17	HB47687	HB47687	SALK 0558
667	9.2	46.0	22	17	AZ481692	AZ481692	AZ481692	AZ481692	7.49	9.2	46.0	43	17	AL764020	AL764020	AL764020
668	9.2	46.0	22	17	AZ248482	AZ248482	AZ248482	AZ248482	7.49	9.2	46.0	43	17	AVR42733	AVR42733	AVR42733
669	9.2	46.0	22	17	AI110502Q	AI110502Q	AI110502Q	AI110502Q	7.49	9.2	46.0	43	17	AI106206	AI106206	AI106206
670	9.2	46.0	22	17	AI110502Q	AI110502Q	AI110502Q	AI110502Q	7.49	9.2	46.0	43	17	AI106206	AI106206	AI106206
671	9.2	46.0	24	17	AZ366144	AZ366144	AZ366144	AZ366144	7.49	9.2	46.0	43	17	AI105938	AI105938	AI105938
672	9.2	46.0	25	9	AA903841	AA903841	AA903841	AA903841	7.49	9.2	46.0	43	17	AI1077137	AI1077137	AI1077137
673	9.2	46.0	25	9	AI126779	AI126779	AI126779	AI126779	7.49	9.2	46.0	43	17	AZ629004	AZ629004	AI0481E18
674	9.2	46.0	25	14	H26073	H26073	H26073	H26073	7.49	9.2	46.0	43	17	AZ656493	AZ656493	AI0532104
675	9.2	46.0	25	17	AZ462652	AZ462652	AZ462652	AZ462652	7.49	9.2	46.0	43	17	AZ862805	AZ862805	AI0532104
676	9.2	46.0	27	13	HC927944	HC927944	HC927944	HC927944	7.49	9.2	46.0	43	17	HB620361	HB620361	AI0532104
677	9.2	46.0	28	9	AI174152	AI174152	AI174152	AI174152	7.50	9.2	46.0	43	17	AI177045	AI177045	AI177045
678	9.2	46.0	28	9	AQ073997	AQ073997	AQ073997	AQ073997	7.50	9.2	46.0	43	17	AI104802P	AI104802P	AI177045
679	9.2	46.0	29	17	AZ443909	AZ443909	AZ443909	AZ443909	7.50	9.2	46.0	43	17	AI142444	AI142444	SWAC/AL09
680	9.2	46.0	31	9	AA953730	AA953730	AA953730	AA953730	7.50	9.2	46.0	43	17	AI142444	AI142444	SWAC/AL09
681	9.2	46.0	31	9	AA993152	AA993152	AA993152	AA993152	7.50	9.2	46.0	43	17	AI142444	AI142444	SWAC/AL09
682	9.2	46.0	31	9	AI193433	AI193433	AI193433	AI193433	7.50	9.2	46.0	43	17	AI142444	AI142444	SWAC/AL09
683	9.2	46.0	31	9	AI1314606	AI1314606	AI1314606	AI1314606	7.50	9.2	46.0	43	17	AI142444	AI142444	SWAC/AL09
684	9.2	46.0	31	9	AI135129	AI135129	AI135129	AI135129	7.50	9.2	46.0	43	17	AI142444	AI142444	SWAC/AL09
685	9.2	46.0	31	9	AA189011	AA189011	AA189011	AA189011	7.50	9.2	46.0	43	17	AI142444	AI142444	SWAC/AL09
686	9.2	46.0	31	9	AA581300	AA581300	AA581300	AA581300	7.50	9.2	46.0	43	17	AI142444	AI142444	SWAC/AL09
687	9.2	46.0	31	14	W40581	W40581	W40581	W40581	7.50	9.2	46.0	43	17	AI142444	AI142444	SWAC/AL09
688	9.2	46.0	31	17	DR19851	DR19851	DR19851	DR19851	7.50	9.2	46.0	43	17	AI142444	AI142444	SWAC/AL09
689	9.2	46.0	31	17	DR19851	DR19851	DR19851	DR19851	7.50	9.2	46.0	43	17	AI142444	AI142444	SWAC/AL09
690	9.2	46.0	32	12	DF140029	DF140029	DF140029	DF140029	7.50	9.2	46.0	43	17	AI142444	AI142444	SWAC/AL09
691	9.2	46.0	32	17	AZ773418	AZ773418	AZ773418	AZ773418	7.50	9.2	46.0	43	17	AI142444	AI142444	SWAC/AL09
692	9.2	46.0	34	9	AA694037	AA694037	AA694037	AA694037	7.50	9.2	46.0	43	17	AI142444	AI142444	SWAC/AL09
693	9.2	46.0	34	9	AA887590	AA887590	AA887590	AA887590	7.50	9.2	46.0	43	17	AI142444	AI142444	SWAC/AL09
694	9.2	46.0	35	9	AU256102	AU256102	AU256102	AU256102	7.50	9.2	46.0	43	17	AI142444	AI142444	SWAC/AL09
695	9.2	46.0	35	2	HS0004217	HS0004217	HS0004217	HS0004217	7.50	9.2	46.0	43	17	AI142444	AI142444	SWAC/AL09
696	9.2	46.0	35	17	HB651566	HB651566	HB651566	HB651566	7.50	9.2	46.0	43	17	AI142444	AI142444	SWAC/AL09
697	9.2	46.0	35	17	HB651566	HB651566	HB651566	HB651566	7.50	9.2	46.0	43	17	AI142444	AI142444	SWAC/AL09
698	9.2	46.0	35	17	AI111005Q	AI111005Q	AI111005Q	AI111005Q	7.50	9.2	46.0	43	17	AI142444	AI142444	SWAC/AL09
699	9.2	46.0	35	17	AI111005Q	AI111005Q	AI111005Q	AI111005Q	7.50	9.2	46.0	43	17	AI142444	AI142444	SWAC/AL09
700	9.2	46.0	36	9	AU258465	AU258465	AU258465	AU258465	7.50	9.2	46.0	43	17	AI142444	AI142444	SWAC/AL09
701	9.2	46.0	36	10	AVR47544	AVR47544	AVR47544	AVR47544	7.50	9.2	46.0	43	17	AI142444	AI142444	SWAC/AL09
702	9.2	46.0	36	13	IM400062	IM400062	IM400062	IM400062	7.50	9.2	46.0	43	17	AI142444	AI142444	SWAC/AL09
703	9.2	46.0	36	17	AZ591142	AZ591142	AZ591142	AZ591142	7.50	9.2	46.0	43	17	AI142444	AI142444	SWAC/AL09
704	9.2	46.0	36	17	HB649581	HB649581	HB649581	HB649581	7.50	9.2	46.0	43	17	AI142444	AI142444	SWAC/AL09
705	9.2	46.0	37	9	AI1039506	AI1039506	AI1039506	AI1039506	7.50	9.2	46.0	43	17	AI142444	AI142444	SWAC/AL09
706	9.2	46.0	37	17	AZ792426	AZ792426	AZ792426	AZ792426	7.50	9.2	46.0	43	17	AI142444	AI142444	SWAC/AL09
707	9.2	46.0	38	10	AVR43424	AVR43424	AVR43424	AVR43424	7.50	9.2	46.0	43	17	AI142444	AI142444	SWAC/AL09
708	9.2	46.0	38	10	HB649581	HB649581	HB649581	HB649581	7.50	9.2	46.0	43	17	AI142444	AI142444	SWAC/AL09
709	9.2	46.0	38	17	HB649581	HB649581	HB649581	HB649581	7.50	9.2	46.0	43	17	AI142444	AI142444	SWAC/AL09
710	9.2	46.0	39	17	AZ499899	AZ499899	AZ499899	AZ499899	7.50	9.2	46.0	43	17	AI142444	AI142444	SWAC/AL09
711	9.2	46.0	39	17	HB613715	HB613715	HB613715	HB613715	7.50	9.2	46.0	43	17	AI142444	AI142444	SWAC/AL09
712	9.2	46.0	40	9	AA877825	AA877825	AA877825	AA877825	7.50	9.2	46.0	43	17	AI142444	AI142444	SWAC/AL09
713	9.2	46.0	40	9	AA888208	AA888208	AA888208	AA888208	7.50	9.2	46.0	43	17	AI142444	AI142444	SWAC/AL09
714	9.2	46.0	40	9	AI1443492	AI1443492	AI1443492	AI1443492	7.50	9.2	46.0	43	17	AI142444	AI142444	SWAC/AL09
715	9.2	46.0	40	9	AA206512	AA206512	AA206512	AA206512	7.50	9.2	46.0	43	17	AI142444	AI142444	SWAC/AL09
716	9.2	46.0	40	13	AI1034050	AI1034050	AI1034050	AI1034050	7.50	9.2	46.0	43	17	AI142444	AI142444	SWAC/AL09
717	9.2	46.0	40	17	HB600126	HB600126	HB600126	HB600126	7.50	9.2	46.0	43	17	AI142444	AI142444	SWAC/AL09
718	9.2	46.0	40	17	HB649581	HB649581	HB649581	HB649581	7.50	9.2	46.0	43	17	AI142444	AI142444	SWAC/AL09
719	9.2	46.0	40	17	HB649581	HB649581	HB649581	HB649581	7.50	9.2	46.0	43	17	AI142444	AI142444	SWAC/AL09
720	9.2	46.0	40	17	HB649581	HB649581	HB649581	HB649581	7.50	9.2	46.0	43	17	AI142444	AI142444	SWAC/AL09
721	9.2	46.0	40	17	HB649581	HB649581	HB649581	HB649581	7.50	9.2	46.0	43	17	AI142444	AI142444	SWAC/AL09
722	9.2	46.0	41	17	AZ470757	AZ470757	AZ470757	AZ470757	7.50	9.2	46.0	43	17	AI142444	AI142444	SWAC/AL09
723	9.2	46.0	42	13	AI1079239	AI1079239	AI1079239	AI1079239	7.50	9.2	46.0	43	17	AI142444	AI142444	SWAC/AL09
724	9.2	46.0	42	17	HB67135	HB67135	HB67135	HB67135	7.50	9.2	46.0	43	17	AI142444	AI142444	SWAC/AL09
725	9.2	46.0	42	17	HB67135	HB67135	HB67135	HB67135	7.50	9.2	46.0	43	17	AI142444	AI142444	SWAC/AL09
726	9.2	46.0	42	17	HB67135	HB67135	HB67135	HB67135	7.50	9.2	46.0	43	17	AI142444	AI142444	SWAC/AL09
727	9.2	46.0	42	17	HB67135	HB67135	HB67135	HB67135	7.50	9.2	46.0	43	17	AI142444	AI142444	SWAC/AL09
728	9.2	46.0	42	17	HB67135	HB67135	HB67135	HB67135	7.50	9.2	46.0	43	17	AI142444	AI142444	SWAC/AL09
729	9.2	46.0	43	9	AA572845	AA572845	AA572845	AA572845	7.50	9.2	46.0	43	17	AI142444	AI142444	SWAC/AL09
730	9.2	46.0	43	9	AA985476	AA985476	AA985476	AA985476	7.50	9.2	46.0	43	17	AI142444	AI142444	SWAC/AL09
731	9.2	46.0	43	9	AI1930709	AI1930709	AI1930709	AI1930709	7.50	9.2	46.0	43	17	AI142444	AI142444	SWAC/AL09
732	9.2	46.0	43	9	AA171959	AA171959	AA171959	AA171959	7.50	9.2	46.0	43	17	AI142444	AI142444	SWAC/AL09
733	9.2	46.0	43	9	AU260188	AU260188	AU260188	AU260188	7.50	9.2	46.0	43	17	AI142444	AI142444	SWAC/AL09
734	9.2	46.0	43	10	AVR47581	AVR47581	AVR47581	AVR47581	7.50	9.2	46.0	43	17	AI142444	AI142444	SWAC/AL09
735	9.2	46.0	43	10	AVR47581	AVR47581	AVR47581	AVR47581	7.50	9.2	46.0	43	17	AI142444	AI142444	SWAC/AL09
736	9.2	46.0	43	14	IM7704	IM7704	IM7704	IM7704	7.50	9.2	46.0	43	17	AI142444	AI142444	SWAC/AL09



810	9.2	46.0	50	9	AU107206	AU107206	AU107206	883	9	45.0	40	12	BE343276	BE343276	BE343276	BE343276	602015945
811	9.2	46.0	50	9	AU107207	AU107207	AU107207	884	9	45.0	40	14	H30578	H30578	H30578	H30578	Y124108.r.1
812	9.2	46.0	50	9	AU107209	AU107209	AU107209	885	9	45.0	40	14	T89279	T89279	T89279	T89279	YJ47603.s.1
813	9.2	46.0	50	9	AU107211	AU107211	AU107211	886	9	45.0	40	17	A2798767	A2798767	A2798767	A2798767	2M0055017
814	9.2	46.0	50	9	AU107213	AU107213	AU107213	887	9	45.0	41	17	A2663413	A2663413	A2663413	A2663413	1M0543101
815	9.2	46.0	50	9	AU107216	AU107216	AU107216	888	9	45.0	41	17	H809488	H809488	H809488	H809488	KG05498-5
816	9.2	46.0	50	9	AU107412	AU107412	AU107412	889	9	45.0	41	17	TA202801Q	TA202801Q	TA202801Q	TA202801Q	T. Bruce1
817	9.2	46.0	50	9	AU107621	AU107621	AU107621	890	9	45.0	41	17	TA381G12Q	TA381G12Q	TA381G12Q	TA381G12Q	T. Bruce1
818	9.2	46.0	50	9	AU107622	AU107622	AU107622	891	9	45.0	42	13	B1769932	B1769932	B1769932	B1769932	603060216
819	9.2	46.0	50	9	AU107980	AU107980	AU107980	892	9	45.0	42	17	A2465429	A2465429	A2465429	A2465429	1M0275A19
820	9.2	46.0	50	9	AU108091	AU108091	AU108091	893	9	45.0	42	17	A2668806	A2668806	A2668806	A2668806	1M0549N10
821	9.2	46.0	50	9	AU108092	AU108092	AU108092	894	9	45.0	43	9	AA948558	AA948558	AA948558	AA948558	on68408.s
822	9.2	46.0	50	12	BE732496	BE732496	BE732496	895	9	45.0	43	9	AA966149	AA966149	AA966149	AA966149	on68408.s
823	9.2	46.0	50	13	B1708558	B1708558	B1708558	896	9	45.0	43	9	AA966149	AA966149	AA966149	AA966149	on68408.s
824	9.2	46.0	50	14	BQ625915	BQ625915	BQ625915	897	9	45.0	43	9	A1356829	A1356829	A1356829	A1356829	qy23611.x
825	9.2	46.0	50	14	BQ642798	BQ642798	BQ642798	898	9	45.0	43	13	B1690746	B1690746	B1690746	B1690746	60314363
826	9.2	46.0	50	17	AF087397	AF087397	AF087397	899	9	45.0	43	14	W60657	W60657	W60657	W60657	z426108.s1
827	9.2	46.0	50	17	A2917998	A2917998	A2917998	900	9	45.0	43	17	BH755534	BH755534	BH755534	BH755534	SAL_K_0508
828	9.2	46.0	50	17	BH626480	BH626480	BH626480	901	9	45.0	43	17	BH807286	BH807286	BH807286	BH807286	100R069F01
829	9.2	46.0	50	17	AZ422531	AZ422531	AZ422531	902	9	45.0	44	9	AU259133	AU259133	AU259133	AU259133	AU259133
830	9.2	46.0	50	17	AZ375604	AZ375604	AZ375604	903	9	45.0	44	14	D67719	D67719	D67719	D67719	CELK076H9F
831	9.2	46.0	50	22	AA68842	AA68842	AA68842	904	9	45.0	44	17	BH663215	BH663215	BH663215	BH663215	100R055G0
832	9.2	46.0	50	22	AZ312656	AZ312656	AZ312656	905	9	45.0	44	17	BH663215	BH663215	BH663215	BH663215	SAL_K_1008
833	9.2	46.0	50	23	AZ958029	AZ958029	AZ958029	906	9	45.0	45	17	BH864498	BH864498	BH864498	BH864498	SAL_K_0961
834	9.2	46.0	50	25	AU1074857	AU1074857	AU1074857	907	9	45.0	45	17	BH864499	BH864499	BH864499	BH864499	SAL_K_0961
835	9.2	46.0	50	25	AZ435187	AZ435187	AZ435187	908	9	45.0	46	9	AA847140	AA847140	AA847140	AA847140	od48B04.s
836	9.2	46.0	50	27	AZ759958	AZ759958	AZ759958	909	9	45.0	46	9	AA869188	AA869188	AA869188	AA869188	qy48112.r
837	9.2	46.0	50	27	PC8303945	PC8303945	PC8303945	910	9	45.0	46	9	AA910510	AA910510	AA910510	AA910510	ok56412.s
838	9.2	46.0	50	28	AZ588433	AZ588433	AZ588433	911	9	45.0	46	9	AA929658	AA929658	AA929658	AA929658	vy75a06.r
839	9.2	46.0	50	28	AZ618471	AZ618471	AZ618471	912	9	45.0	46	9	AA1155176	AA1155176	AA1155176	AA1155176	ud82h11.r
840	9.2	46.0	50	29	AZ367842	AZ367842	AZ367842	913	9	45.0	46	9	AA119127	AA119127	AA119127	AA119127	qy56602.x
841	9.2	46.0	50	29	AZ814996	AZ814996	AZ814996	914	9	45.0	46	9	AA1361593	AA1361593	AA1361593	AA1361593	qy48406.x
842	9.2	46.0	50	30	AZ658107	AZ658107	AZ658107	915	9	45.0	46	9	AA957210	AA957210	AA957210	AA957210	u173404.x
843	9.2	46.0	50	30	BH810436	BH810436	BH810436	916	9	45.0	46	13	B1908094	B1908094	B1908094	B1908094	603067184
844	9.2	46.0	50	31	AA266787	AA266787	AA266787	917	9	45.0	46	13	B1915632	B1915632	B1915632	B1915632	603176807
845	9.2	46.0	50	31	BG929146	BG929146	BG929146	918	9	45.0	46	13	B1915632	B1915632	B1915632	B1915632	603176807
846	9.2	46.0	50	32	AZ504201	AZ504201	AZ504201	919	9	45.0	46	13	B1915632	B1915632	B1915632	B1915632	603176807
847	9.2	46.0	50	32	AZ630696	AZ630696	AZ630696	920	9	45.0	46	14	T73797	T73797	T73797	T73797	ye54a09.s1
848	9.2	46.0	50	33	AZ379585	AZ379585	AZ379585	921	9	45.0	46	14	T73797	T73797	T73797	T73797	ye54a09.s1
849	9.2	46.0	50	33	TA227D09Q	TA227D09Q	TA227D09Q	922	9	45.0	46	17	AQ073659	AQ073659	AQ073659	AQ073659	EP(2)2525
850	9.2	46.0	50	34	AA869975	AA869975	AA869975	923	9	45.0	46	17	A276466	A276466	A276466	A276466	1M0295A22
851	9.2	46.0	50	34	AA931343	AA931343	AA931343	924	9	45.0	46	17	A2785255	A2785255	A2785255	A2785255	2M0029106
852	9.2	46.0	50	34	A1528944	A1528944	A1528944	925	9	45.0	46	17	H848546	H848546	H848546	H848546	SAL_K_0885
853	9.2	46.0	50	34	AA89463	AA89463	AA89463	926	9	45.0	46	17	H863110	H863110	H863110	H863110	SAL_K_0941
854	9.2	46.0	50	34	AZ602397	AZ602397	AZ602397	927	9	45.0	47	13	B1082347	B1082347	B1082347	B1082347	602877544
855	9.2	46.0	50	34	AZ832181	AZ832181	AZ832181	928	9	45.0	47	17	A2776768	A2776768	A2776768	A2776768	2M0010810
856	9.2	46.0	50	34	AL759526	AL759526	AL759526	929	9	45.0	47	17	A2849585	A2849585	A2849585	A2849585	2M0151N04
857	9.2	46.0	50	35	AQ024992	AQ024992	AQ024992	930	9	45.0	48	17	BH796014	BH796014	BH796014	BH796014	100R09200
858	9.2	46.0	50	35	AZ485619	AZ485619	AZ485619	931	9	45.0	48	14	H93557	H93557	H93557	H93557	vy14d11.r.1
859	9.2	46.0	50	35	BH896557	BH896557	BH896557	932	9	45.0	48	17	A2765963	A2765963	A2765963	A2765963	1M0563M12
860	9.2	46.0	50	36	B1066815	B1066815	B1066815	933	9	45.0	48	17	A2828525	A2828525	A2828525	A2828525	2M0105K04
861	9.2	46.0	50	36	AZ309331	AZ309331	AZ309331	934	9	45.0	48	17	BH629491	BH629491	BH629491	BH629491	100707340
862	9.2	46.0	50	36	AZ385555	AZ385555	AZ385555	935	9	45.0	48	17	BH790361	BH790361	BH790361	BH790361	SAL_K_0568
863	9.2	46.0	50	36	AZ482120	AZ482120	AZ482120	936	9	45.0	49	9	A1119487	A1119487	A1119487	A1119487	uc25b04.r
864	9.2	46.0	50	36	AZ812622	AZ812622	AZ812622	937	9	45.0	49	9	A1900473	A1900473	A1900473	A1900473	sc11B08.y
865	9.2	46.0	50	37	AA681821	AA681821	AA681821	938	9	45.0	49	9	AA479811	AA479811	AA479811	AA479811	z044c03.r
866	9.2	46.0	50	37	A1208016	A1208016	A1208016	939	9	45.0	49	9	AA531822	AA531822	AA531822	AA531822	TqESt2247
867	9.2	46.0	50	37	AV834036	AV834036	AV834036	940	9	45.0	49	12	BE203474	BE203474	BE203474	BE203474	6018657.x1
868	9.2	46.0	50	37	AV953936	AV953936	AV953936	941	9	45.0	49	17	A2601892	A2601892	A2601892	A2601892	1M0420E24
869	9.2	46.0	50	37	BH739565	BH739565	BH739565	942	9	45.0	49	17	A2826667	A2826667	A2826667	A2826667	2M0102N01
870	9.2	46.0	50	37	AQ025329	AQ025329	AQ025329	943	9	45.0	49	17	A2830315	A2830315	A2830315	A2830315	2M0109E04
871	9.2	46.0	50	37	AQ025713	AQ025713	AQ025713	944	9	45.0	49	17	BH621815	BH621815	BH621815	BH621815	100711901
872	9.2	46.0	50	37	AZ592491	AZ592491	AZ592491	945	9	45.0	49	17	BH626797	BH626797	BH626797	BH626797	100706500
873	9.2	46.0	50	37	TA166E03P	TA166E03P	TA166E03P	946	9	45.0	49	17	BH630562	BH630562	BH630562	BH630562	100709400
874	9.2	46.0	50	38	TA52142	TA52142	TA52142	947	9	45.0	49	17	BH855856	BH855856	BH855856	BH855856	SAL_K_0844
875	9.2	46.0	50	38	AZ471114	AZ471114	AZ471114	948	9	45.0	49	17	BH855857	BH855857	BH855857	BH855857	SAL_K_0844
876	9.2	46.0	50	38	AZ776209	AZ776209	AZ776209	949	9	45.0	50	9	AU102282	AU102282	AU102282	AU102282	AU102282
877	9.2	46.0	50	38	AL771775	AL771775	AL771775	950	9	45.0	50	9	AU102627	AU102627	AU102627	AU102627	AU102627
878	9.2	46.0	50	39	BG495089	BG495089	BG495089	951	9	45.0	50	9	AU102678	AU102678	AU102678	AU102678	AU102678
879	9.2	46.0</															



elements. The resultant fragment for each line was directly sequenced to determine the genomic sequence at the site of insertion. Details of the protocols used can be found at [http://signal.salk.edu/tdua\\_protocols.html](http://signal.salk.edu/tdua_protocols.html)

BASE COUNT 12 a 10 c 6 g 18 t  
 ORIGIN  
 Query Match 64.0% Score 12.8; DB 17; Length 46;  
 Best local Similarity 87.5% Pred. No. 4.7e-04;  
 Matches 14; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 4 GACATCTTCCTGCTG 19  
 TTT TTTT TTTT  
 Db 24 GACATCTTCCTGCTG 39

RESULT 1  
 AL628983/1 AL628983 50 bp mRNA linear EST 02-NW-2001  
 DEFINITION AL628983 XGC-gastrula Silurana tropicalis cDNA clone TGAS011416.5',  
 mRNA sequence.  
 ACCESSION AL628983  
 VERSION AL628983.1 GI:16598466  
 KEYWORDS EST.  
 SOURCE Western clawed frog.  
 ORGANISM Silurana tropicalis  
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;  
 Amphibia; Batrachia; Anura; Mesobatrachia; Pipidae; Pipidae;  
 Xenopodidae; Silurana.

REFERENCE 1 (bases 1 to 50)  
 AUTHORS Huckle, E., Taylor, R., Ashurst, J. L., Zorn, A. M. and Koppers, J.  
 TITLE Sanger Xenopus tropicalis EST project 2001 (10\_2001)  
 JOURNAL TROPICALIS SEQUENCE ID: TGAS011416.sp6  
 CONTACT: Huckle E  
 COMMENT This sequence is from a Xenopus Gene Collection (XGC) library  
 constructed by Aaron M. Zorn.

FEATURES  
 source  
 1..50  
 Location/Qualifiers  
 /organism="Silurana tropicalis"  
 /db\_xref="taxon:8364"  
 /clone="TGAS011416"  
 /clone\_lib="XGC-gastrula"  
 /dev\_stage="gastrula (stages 10.5-13 mixed)"  
 /lab\_host="Escherichia coli XL1 blue"  
 /note="Vector: pCS107; Site 1: EcoRI; Site 2: NotI; cDNA  
 was oligo dT primed from 5' end of poly A+ RNA from stages  
 10-13 gastrulae; EcoRI-NotI cut cDNA was then ligated  
 into pCS107 with EcoRI at the 5' end and NotI at the 3'  
 end."

BASE COUNT 14 a 9 c 19 g 8 t  
 ORIGIN  
 Query Match 64.0% Score 12.8; DB 9; Length 50;  
 Best local Similarity 87.5% Pred. No. 4.9e-04;  
 Matches 14; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1 GACATCTTCCTGCTG 16  
 TTT TTTT TTTT  
 Db 42 GACATCTTCCTGCTG 27

RESULT 4  
 TA37H02P/1 TA37H02P 38 bp DNA linear GSS 13-DEC-2000  
 DEFINITION T. brucei sheared genomic DNA clone 37h02, forward sequence,  
 genomic survey sequence.  
 ACCESSION AL454061

VERSION  
 KEYWORDS  
 SOURCE  
 ORGANISM

REFERENCE  
 AUTHORS  
 TITLE  
 JOURNAL

COMMENT

AL454061.1 GI:11854572  
 GSS.  
 Trypanosoma brucei.  
 Trypanosoma brucei.  
 Eukaryota; Euklenozoa; Kinetoplastida; Trypanosomatidae;  
 Trypanosoma.  
 1 (bases 1 to 48)  
 Hall, N., Bowman, S., Lennard, N. J., Boquet, J., Atkin, R.,  
 Phillipsworth, C., Diamond, D., Harris, R., El-Sayed, N., Boulton,  
 Melville, S. E., Kojandream, M. A. and Barrell, B. G.  
 Direct Submission  
 Submitted (10-DEC-2000) Trypanosoma brucei genome sequencing  
 project, Sanger Centre, The Wellcome Trust Genome Campus, Hinxton,  
 Cambridge CB10 1SA, E-mail: barrell@sanger.ac.uk and  
 nhl@sanger.ac.uk  
 Constructed at the Institute for Genomic Research (IGR),  
 Rockville, MD. Genomic DNA isolated from a cloned population of  
 Trypanosoma brucei (TRED927/4 Ghat 10.1) was mechanically sheared  
 to give a tight size distribution (4 kb). The v. i method used for the library construction is  
 described in detail in Smith, H. and Venter, J. C. (Making small  
 insert libraries for whole genome shotgun sequencing projects. In  
 Genome Sequencing: A Practical Approach, eds. M. Vaudin and R.  
 Barrell, Oxford University Press, 1999).  
 Email: melsayed@igr.org  
 Details of T. brucei sequencing at the Sanger Centre are available  
 at [http://www.sanger.ac.uk/projects/1\\_brucei/](http://www.sanger.ac.uk/projects/1_brucei/).

FEATURES  
 source

1..48  
 /organism="Trypanosoma brucei"  
 /strain="TRED927"  
 /db\_xref="taxon:5691"  
 /clone="37h02"  
 6 a 9 c 15 g 8 t  
 Query Match 62.0% Score 12.4; DB 17; Length 48;  
 Best local Similarity 92.9% Pred. No. 6.7e-04;  
 Matches 14; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 GACATCTTCCTGCTG 14  
 TTT TTTT TTTT  
 Db 15 GACATCTTCCTGCTG 2

RESULT 5  
 AL048493/1 AL048493 43 bp mRNA linear EST 24-SEP-1998  
 DEFINITION AL048493.1 Soares\_total\_fetus\_Nb2H8.9w Homo sapiens cDNA clone  
 IMAGE:1658584.3' similar to TR:Q41707 Q41707 EXTENSION CLASS 1  
 PROTEIN PRECURSOR. 1; mRNA sequence.  
 ACCESSION AL048493  
 VERSION AL048493.1 GI:4277687  
 KEYWORDS EST.  
 SOURCE Human.  
 ORGANISM Homo Sapiens  
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;  
 Mammalia; Eutheria; Primates; Catarrhini; Homidae; Homo.

REFERENCE  
 AUTHORS  
 TITLE  
 JOURNAL  
 COMMENT

1 (bases 1 to 43)  
 NCI-CGAP <http://www.ncbi.nlm.nih.gov/ncicgap>.  
 National Cancer Institute, Cancer Genome Anatomy Project (CGAP).  
 Tumor Gene Index  
 Unpublished (1997)  
 Contact: Robert Strausberg, Ph.D.  
 Email: capus@mail.nih.gov  
 This clone is available royalty-free through NCI. Contact the  
 IMAGE Consortium ([infoimage@imga.gov](mailto:infoimage@imga.gov)) for further information.  
 Trace considered overall poor quality  
 Insert length: 332 Std Error: 0.00  
 Seq primer: -40mly fwd. ET from Amersham  
 High quality sequence stop: 1.  
 Location/Qualifiers  
 1..43

QY	I GAGGAGCTTCTC 14
1b	45 GAGGAGCTTCATC 32
 RESULT 7 AV957156/C	
LOCUS	AV957156, Not1 Satoh unpublished cDNA library, expressed clone
DEFINITION	Intestinalis cDNA clone c1c0t0p13.5', mRNA sequence.
ACCESSION	AV957156
VERSION	AV957156
KEYWORDS	EST,
SOURCE	Ciona intestinalis,
ORGANISM	Ciona intestinalis, Fukuyama; Metazoa; Chordata; Urochordata; Ascidiacea; Enteropneusta; Phlebobranchia; Clonidae; Ciona, 1 (bases 1 to 43) Satoh, N., Satoh, Y., Kohara, Y., and Shimizu, T. Expressed genes in Ciona intestinalis Unpublished (2000)
REFERENCE	Contact : Not1 Satoh Department of Zoology Kyoto University Sakyo-ku, Kyoto, Kyoto 606-8502, Japan
AUTHORS	
TITLE	
JOURNAL	
COMMENT	

```

FASTX: 61 75 703 1113
Email: Satoh@sci.tan.kyoto-u.ac.jp,
Location/Qualifiers
  1..34
  /organism "Citoma intestinalis"
  /db_xref "taxon:7719"
  /clone "c10p1.4"
  /clone_lib "Nori Satoh unpublished cDNA library, eqp"
  /issue_type "whole animal"
  /dev_stage "eqp"
  /note "Vector: pBluescript SK"
  4 c 11 q 6 4

BASE COUNT
ORIGIN

Query Match 61.0%; Score 12.2; DB 10; Length 34;
Best Local Similarity 82.4%; Prod. No. 7, Rec04;
Matches 14; Conservative 0; Mismatches 3; Gaps 0;

QY 2 CACACAGTCTCTCTCT 18
    TTT TTTTTTTT TTT

```

RESULT	B
LOCUS	AU102484
DEFINITION	50 bp mRNA Library Homo sapiens cDNA clone
ACCESSION	AU102484
KEYWORDS	EST, human, Homo sapiens Organism
REFERENCE	Eukaryotic Metazoa; Chordata; Chelonia; Vertebrata; Euteleostomi; Mammalia; Primates; Catarrhini; Hominoidea; Homo.
AUTHORS	Suzuki Y., Taira H., Tsunoda T., Mizushima Sugano, J., Sato, J., Hara J., Ohtsuka, Isotani, Tanaka, T., Mochizuki, A., Okubo, K., Sakaki Y., Nakamura Y., Suyama, A. and Sugano, S. Diverse transcriptional initiation revealed by fine, large-scale mapping of mRNA start sites
TITLE	EMBO Rep. 2 (5), 488-494 (2001)
JOURNAL	Z12700/Z
MEDLINE	Contact : Yutaka Suzuki
COMMENT	Department of Virology Institute of Medical Science, University of Tokyo

4-6-1, Shirokanedai, Minato-ku, Tokyo 108-8639, Japan  
Email: yszukuj@ms.u-tokyo.ac.jp  
Suzuki Y., Yoshitomo-Nakagawa K., Maruyama K., Suyama A. and Sugano S. Construction and characterization of a full length-enriched and a 5'-end-enriched cDNA library. *Gene* 200 (1-2), 145-156 (1997).

## FEATURES

```

Source
1. 50
ZooBank "Homo sapiens"
/db_xref "taxon:9606"
/clone "ADSH01541"
/clone_lib "Sudano Homo sapiens cDNA library"
/notes "Differential display comparison of untreated and
dimethylformate treated 0947 cells"
9 3 23 c 7 q 11 t
BASE COUNT
ORIGIN
Query Match 61.0% Score 12.2; DB 9; Length 50;
Best local Similarity 82.4%; Pied.No. 9.4e-04;
Matches 14; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

```

QY	2	CAGACATCTCTTCGGT	18
Db	22	CAGACATCTCTTCGGT	48

  

RESULT 9			
LOCUS	AI106440	50 bp	MEMA
DEFINITION	AI106440	Susario Homo sapiens cDNA clone	EST 40 AUG-2001
	AI106442	MEMA Sequence	Homo sapiens cDNA clone

ACROSS THE  
VERSION

VERSION  
KEYWORDS  
SOURCE  
ORGANISM  
EST.  
human.  
Homo sapiens  
Chordata: Vertebrata; Euteleostomi;  
Mammalia: Eutheria; Primates:  
1 (bases 1 to 50)  
Suzuki,Y., Taira,H., Tsunoda,T., Mizushima-Sugano,J., Sese,J., Hata  
H., Ota,T., Isozaki,T., Tanaka,T., Morishita,S., Okubo,K., Sakaki  
Y., Nakamura,Y., Suyama,A. and Sugano,S.  
Diverse transcriptional initiation revealed by fine, large-scale  
mapping of mRNA start sites  
EMBO Rep. 2 (5), 488-393 (2001)  
JOURNAL

JOURNAL: *Journal of Virology*  
 MEDLINE: 21270072  
 COMMENT: EMBO Rep. 2 (3): 388-393 (2001)  
 FEATURES: Location/Qualifiers  
 SUZUKI.Y., Yoshitomo-Nakagawa,K., Matnyama,K., Suyama,A. and Sugano,S. Construction and characterization of a full length enriched and a 5'-end-enriched cDNA library. *Gene* 200 (1-2): 149-156 (1997).

## FEAULTS

```

BASE COUNT      5 a      4 c      16 q      20 t
ORIGIN
Query Match      61.0%; Score 12.2; Length 50;
Best local Similarity 82.4%; Pred. No. 9.4e+04;
Matches 14; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

```

RESULT 10	
A0106401	
LOCUS	
DEFINITION	AU106401 Susquehomo sapiens cDNA library Homo sapiens cDNA clone
	50 bp linear EST 30-AUG-2001
	CU190442 mRNA sequence.

Accession	AJ106401
Version	AJ106401.1
Catalytic domain	1-613
Full length	1-855
Signal sequence	1-27

VERSION: 1.0  
 KEYWORDS: EST, AF106401.1, GI:13555922  
 SOURCE: human  
 ORGANISM: Homo sapiens  
 Eukaryota; Metazoa; Chordata; Vertebrata; Euteleostomi;  
 Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.  
 1 (bases 1 to 50)  
 REFERENCE: Suzuki, Y., Ishida, T., Tsunoda, T., Mizushima-Sugano, J., Seso, J., Hata  
 Z., Ohtsuka, T., Isozaki, T., Tanaka, T., Morishita, S., Okubo, K., Sakaki  
 Y., Nakamura, Y., Suyama, A. and Sugano, S.  
 TITLE: Diverse transcriptional initiation revealed by fine, large-scale  
 mapping of mRNA start sites  
 JOURNAL: EMBO Rep. 2 (5): 498-493 (2001)

21270072  
MEDLINE  
COMMENT  
Contact: Yurika Suzuki  
Department of Virology  
Institute of Medical Science, University of Tokyo  
4-6-1, Shirokanedai, Minato-ku, Tokyo 108 8649, Japan  
Email: ysuzuki@ims.u-tokyo.ac.jp  
Suzuki, Y., Yoshitomo-Nakadawa, K., Maruyama, K., Suyama, A. and Sudano, S. Construction and characterization of a full-length-encircled and a 5'-end-encircled cDNA library. *Gene* 200 (1-2), 149-156 (1997).  
FEATURES  
SOURCE: 1 50  
LOCATION/Qualifiers

Source: *U.S. Census Bureau, "Homosexuals in the U.S.," *U.S. Census Bureau News*, 1986.*

```

/db_xref "taxon:9606"
/clone-"cd000442"
/clone_lib "Sutano Homo sapiens cDNA library"
/notes"Differential display comparison of untreated and
dimethylformate treated 0937 cells"
BASE COUNT      5 a      11 c      16 q      18 t
ORIGIN
Query Match      61.0%   Score 12.2;   DB 9;   Length 50;
Best Local Similarity 82.4%;   Pred. No. 9.4e+04;
Matches 14; Conservative 0; Mismatches 8; Indels 0; Gaps 0;
WV      4 GATTCCTCTCCCTG 20

```

CY	4	GATTCTTTCCTGGG	20
lib	s4	GATTCTTTCCTGGG	50
 RESULT 11 AUT06404 LOCUS DEFINITION TRANSCRIPTION			
		AUT06404	mRNA
		AUT06404	50 bp
		AUT06404	Susaco Homo sapiens cDNA library
		c-ETC89	mRNA sequence.
		AUT06404	

ACCESSION NUMBER	AU106404.1
VERSION	GI:13555925
KEYWORDS	EST,
SOURCE	human,
ORGANISM	Homo sapiens
REFERENCE	Eukaryota; Metazoa; Chordata; Vertebrata; Euteleostomi;
AUTHORS	Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
	1 (bases 1 to 50)
	Suzuki, Y., Taira, H., Tsuruda, F., Mizushima Sugano, J., Soso, J., Bata
	H., Ota, I., Isozaki, T., Tanaka, T., Morishita, S., Okubo, K., Sakaki
	Y., Nakamura, Y., Suyama, A. and Sugano, S.
TITLE	Diverse transcriptional initiation revealed by fine, large-scale
JOURNAL	mapping of mRNA start sites
ENTRY	EMBL Rep. 2 (5), 388-393 (2001)
RELEASE	21-07-2002

CONTACT: Yutaka Suzuki  
Department of Virology  
Institute of Medical Science, University of Tokyo,  
4-6-1, Shirokanedai, Minato-ku, Tokyo 108-8649, Japan  
Email: yusuzuki@ims.u-tokyo.ac.jp

Suzuki,Y., Yoshitomo Nakatawa,K., Maruyama,K., Suyama,A., and Sasaki  
S., Construction and characterization of a full length-enriched and  
a 5'-end-enriched cDNA library. Gene 200 (1-2), 149-156 (1997).

#### FEATURES

##### Source

1..50  
Organism "Homo sapiens"  
Zdb xref "taxon:9606"  
Zclone "celf0409"

Zclone lib "Sudano Homo sapiens cDNA library"  
Znote "differential display comparison of untreated and  
dimethylformate treated 0947 cells"

5 a 11 c 17 q 17 t

##### BASE COUNT

##### ORIGIN

Query Match 61.0%; Score 12.2; DB 9; Length 50;

Best local Similarity 82.4%; Pred. No. 9.4e+04;

Matches 14; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

QY 4 GAGATCTCTCTCGGGG 20

||||| 1 1111

Db 28 GAGATCTCTCTCTGGG 44

#### RESULT 12

##### Accession

##### Version

##### Keywords

##### Source

##### Organism

##### Reference

##### Authors

##### Title

##### Journal

##### Medline

##### Comment

##### Features

##### Source

##### Base Count

##### Origin

##### Query Match

##### Best local

##### Matches

##### Conservative

##### Mismatches

##### Indels

##### Gaps

##### QY

##### Db

##### Result 14

##### Accession

##### Version

##### Keywords

##### Source

##### Organism

##### Reference

##### Authors

##### Title

##### Journal

##### Medline

##### Comment

##### Features

##### Source

##### Base Count

##### Origin

##### Query Match

##### Best local

##### Matches

##### Conservative

##### Mismatches

##### Indels

##### Gaps

##### QY

##### Db

##### Result 14

##### Accession

##### Version

##### Keywords

##### Source

##### Organism

##### Reference

##### Authors

##### Title

##### Journal

##### Medline

##### Comment

##### Features

##### Source

#### LOCUS

#### DEFINITION

#### Accession

#### Version

#### Keywords

#### Source

#### Organism

#### Reference

#### Authors

#### Title

#### Journal

#### Medline

#### Comment

#### Features

#### Source

#### Base Count

#### Origin

#### Query Match

#### Best local

#### Matches

#### Conservative

#### Mismatches

#### Indels

#### Gaps

#### QY

#### Db

#### Result 14

#### Accession

#### Version

#### Keywords

#### Source

#### Organism

#### Reference

#### Authors

#### Title

#### Journal

#### Medline

#### Comment

#### Features

#### Source

#### Base Count

#### Origin

#### Query Match

#### Best local

#### Matches

#### Conservative

#### Mismatches

#### Indels

#### Gaps

#### QY

#### Db

#### Result 14

#### Accession

#### Version

#### Keywords

#### Source

#### Organism

#### Reference

#### Authors

#### Title

#### Journal

#### Medline

#### Comment

#### Features

#### Source

#### Base Count

#### Origin

#### Query Match

#### Best local

#### Matches

#### Conservative

#### Mismatches

#### Indels

#### Gaps

#### QY

#### Db

#### Result 14

#### Accession

#### Version

#### Keywords

#### Source

#### Organism

#### Reference

#### Authors

#### Title

#### Journal

#### Medline

#### Comment

#### Features

#### Source

#### Base Count

#### Origin

#### Query Match

#### Best local

#### Matches

#### Conservative

#### Mismatches

#### Indels

#### Gaps

#### QY

#### Db

#### Result 14

#### Accession

#### Version

#### Keywords

#### Source

#### Organism

#### Reference

#### Authors

#### Title

#### Journal

#### Medline

#### Comment

#### Features

#### Source

#### Base Count

#### Origin

#### Query Match

#### Best local

#### Matches

#### Conservative

#### Mismatches

#### Indels

#### Gaps

#### QY

#### Db

#### Result 14

#### Accession

#### Version

#### Keywords

#### Source

#### Organism

#### Reference

#### Authors

#### Title

#### Journal

#### Medline

#### Comment

#### Features

#### Source

#### Base Count

#### Origin

#### Query Match

#### Best local

#### Matches

#### Conservative

#### Mismatches

#### Indels

#### Gaps

#### QY

#### Db

#### Result 14

#### Accession

#### Version

#### Keywords

#### Source

#### Organism

#### Reference

#### Authors

#### Title

#### Journal

#### Medline

#### Comment

#### Features

#### Source

#### Base Count

#### Origin

#### Query Match

#### Best local

#### Matches

#### Conservative

#### Mismatches

#### Indels

#### Gaps

#### QY

#### Db

#### Result 14

#### Accession

#### Version

#### Keywords

#### Source

#### Organism

#### Reference

#### Authors

#### Title

#### Journal

#### Medline

#### Comment

#### Features

#### Source

#### Base Count

#### Origin

#### Query Match

#### Best local

#### Matches

#### Conservative

#### Mismatches

#### Indels

#### Gaps

#### QY

#### Db

#### Result 14

#### Accession

#### Version

#### Keywords

```

FEATURES             a 5'-end enriched cDNA library. Gene 200 (1-2), 149-156 (1997).
SOURCE               Location/Qualifiers
   1..50
   /organism="Homo sapiens"
   /db_xref="taxon:9606"
   /clone="ColF0677"
   /zclone_lib="Suqano Homo sapiens cDNA library"
   /note="Differential display comparison of untreated and
   dimethyluminate treated 0947 cells"
BASE COUNT          5 a 11 c 17 q 17 t
ORIGIN
Query Match          61.0%; Score 12.2; DB 9; Length 50;
Best local Similarity 82.4%; Pred. No. 9.4e+04;
Matches 14; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 4 GGAGTCTCTCTCGCG 20
|||||
DB 28 GGAGTCTCTCTCTGCG 44

RESULT 15
LOCUS               A0106410          50 bp      mRNA      linear      EST 30-AUG-2001
DEFINITION          A0106410 Suqano Homo sapiens cDNA library Homo sapiens cDNA clone
VERSION             A0106410
KEYWORDS            EST.
SOURCE              human.
ORGANISM             Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.
AUTHORS             Suzuki,Y., Iaira,H., Tsunoda,T., Mizushima-Sugano,J., Sese,J., Hata
                    Y., Nakamura,Y., Suyama,A. and Sugano,S.
                    Diverse transcriptional initiation revealed by fine, large-scale
                    mapping of mRNA start sites
                    EMBO Rep. 2 (5), 388-394 (2001)
TITLE               Query Match          61.0%; Score 12.2; DB 9; Length 50;
                    Best local Similarity 82.4%; Pred. No. 9.4e+04;
                    Matches 14; Conservative 0; Mismatches 3; Indels 0; Gaps 0;
JOURNAL             EMBO Rep. 2 (5), 388-394 (2001)
MEDLINE
COMMENT             Contact: Yutaka Suzuki
                    Department of Virology
                    Institute of Medical Science, University of Tokyo
                    4-6-1, Shirokanedai, Minatoku, Tokyo 108-8639, Japan
                    Email: yszuk@ims.u-tokyo.ac.jp
                    Suzuki,Y., Yoshitomo-Nakagawa,K., Maruyama,K., Suyama,A. and Sugano
                    S. Construction and characterization of a full length-enriched and
                    a 5'-end-enriched cDNA library. Gene 200 (1-2), 149-156 (1997).
                    Location/Qualifiers
                    1..50
                    /organism="Homo sapiens"
                    /db_xref="taxon:9606"
                    /clone="ColF0702"
                    /zclone_lib="Suqano Homo sapiens cDNA library"
                    /note="Differential display comparison of untreated and
                    dimethyluminate treated 0947 cells"
BASE COUNT          5 a 11 c 17 q 17 t
ORIGIN
Query Match          61.0%; Score 12.2; DB 9; Length 50;
Best local Similarity 82.4%; Pred. No. 9.4e+04;
Matches 14; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 4 GGAGTCTCTCTCTCGCG 20
|||||
DB 28 GGAGTCTCTCTCTGCG 44

RESULT 16
LOCUS               A0106412          50 bp      mRNA      linear      EST 30-AUG-2001
DEFINITION          A0106412 Suqano Homo sapiens cDNA library Homo sapiens cDNA clone

```

```

FEATURES             a 5'-end enriched cDNA library. Gene 200 (1-2), 149-156 (1997).
SOURCE               Location/Qualifiers
   1..50
   /organism="Homo sapiens"
   /db_xref="taxon:9606"
   /clone="ColF0677"
   /zclone_lib="Suqano Homo sapiens cDNA library"
   /note="Differential display comparison of untreated and
   dimethyluminate treated 0947 cells"
BASE COUNT          6 a 10 c 17 q 17 t
ORIGIN
Query Match          61.0%; Score 12.2; DB 9; Length 50;
Best local Similarity 82.4%; Pred. No. 9.4e+04;
Matches 14; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 4 GGAGTCTCTCTCTCGCG 20
|||||
DB 42 GGAGTCTCTCTCTGCG 48

RESULT 17
LOCUS               A0106419          50 bp      mRNA      linear      EST 30-AUG-2001
DEFINITION          A0106419 Suqano Homo sapiens cDNA library Homo sapiens cDNA clone
VERSION             A0106419
KEYWORDS            EST.
SOURCE              human.
ORGANISM             Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.
AUTHORS             Suzuki,Y., Iaira,H., Tsunoda,T., Mizushima-Sugano,J., Sese,J., Hata
                    Y., Nakamura,Y., Suyama,A. and Sugano,S.
                    Diverse transcriptional initiation revealed by fine, large-scale
                    mapping of mRNA start sites
                    EMBO Rep. 2 (5), 388-394 (2001)
TITLE               Query Match          61.0%; Score 12.2; DB 9; Length 50;
                    Best local Similarity 82.4%; Pred. No. 9.4e+04;
                    Matches 14; Conservative 0; Mismatches 3; Indels 0; Gaps 0;
JOURNAL             EMBO Rep. 2 (5), 388-394 (2001)
MEDLINE
COMMENT             Contact: Yutaka Suzuki
                    Department of Virology
                    Institute of Medical Science, University of Tokyo
                    4-6-1, Shirokanedai, Minatoku, Tokyo 108-8639, Japan
                    Email: yszuk@ims.u-tokyo.ac.jp
                    Suzuki,Y., Yoshitomo-Nakagawa,K., Maruyama,K., Suyama,A. and Sugano
                    S. Construction and characterization of a full length-enriched and
                    a 5'-end-enriched cDNA library. Gene 200 (1-2), 149-156 (1997).
                    Location/Qualifiers
                    1..50
                    /organism="Homo sapiens"
                    /db_xref="taxon:9606"
                    /clone="ColF0702"
                    /zclone_lib="Suqano Homo sapiens cDNA library"
                    /note="Differential display comparison of untreated and
                    dimethyluminate treated 0947 cells"
BASE COUNT          6 a 10 c 17 q 17 t
ORIGIN
Query Match          61.0%; Score 12.2; DB 9; Length 50;
Best local Similarity 82.4%; Pred. No. 9.4e+04;
Matches 14; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 4 GGAGTCTCTCTCTCGCG 20
|||||
DB 42 GGAGTCTCTCTCTGCG 48

RESULT 17
LOCUS               A0106419          50 bp      mRNA      linear      EST 30-AUG-2001
DEFINITION          A0106419 Suqano Homo sapiens cDNA library Homo sapiens cDNA clone
VERSION             A0106419
KEYWORDS            EST.
SOURCE              human.
ORGANISM             Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.
AUTHORS             Suzuki,Y., Iaira,H., Tsunoda,T., Mizushima-Sugano,J., Sese,J., Hata
                    Y., Nakamura,Y., Suyama,A. and Sugano,S.
                    Diverse transcriptional initiation revealed by fine, large-scale
                    mapping of mRNA start sites
                    EMBO Rep. 2 (5), 388-394 (2001)
TITLE               Query Match          61.0%; Score 12.2; DB 9; Length 50;
                    Best local Similarity 82.4%; Pred. No. 9.4e+04;
                    Matches 14; Conservative 0; Mismatches 3; Indels 0; Gaps 0;
JOURNAL             EMBO Rep. 2 (5), 388-394 (2001)
MEDLINE
COMMENT             Contact: Yutaka Suzuki
                    Department of Virology
                    Institute of Medical Science, University of Tokyo
                    4-6-1, Shirokanedai, Minatoku, Tokyo 108-8639, Japan
                    Email: yszuk@ims.u-tokyo.ac.jp
                    Suzuki,Y., Yoshitomo-Nakagawa,K., Maruyama,K., Suyama,A. and Sugano
                    S. Construction and characterization of a full length-enriched and
                    a 5'-end-enriched cDNA library. Gene 200 (1-2), 149-156 (1997).
                    Location/Qualifiers
                    1..50
                    /organism="Homo sapiens"
                    /db_xref="taxon:9606"
                    /clone="ColF0702"
                    /zclone_lib="Suqano Homo sapiens cDNA library"
                    /note="Differential display comparison of untreated and
                    dimethyluminate treated 0947 cells"
BASE COUNT          6 a 10 c 17 q 17 t
ORIGIN
Query Match          61.0%; Score 12.2; DB 9; Length 50;
Best local Similarity 82.4%; Pred. No. 9.4e+04;
Matches 14; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 4 GGAGTCTCTCTCTCGCG 20
|||||
DB 42 GGAGTCTCTCTCTGCG 48

```

```

source
  1..50
  /organism "Homo sapiens"
  /db_xref "taxon:9606"
  /clone "ColF1679"
  /note "Sugano Homo sapiens cDNA Library"
  /note "Differential display comparison of untreated and
  dimethylformate treated 0947 cells"
  5' a 11 c 17 q 17 t

BASE COUNT
ORIGIN

Query Match 61.0% Score 12.2; DB 9; Length 50;
Best Local Similarity 82.4% Pred. No. 9.4e+04;
Matches 14; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 4 GAGATTCCTCCCGG 20
DB 28 GAGATTCCTCCCGG 44

RESULT 19
AUI06425
LOCUS
DEFINITION AUI06421 Sugano Homo sapiens cDNA Library EST 40-AUG-2001
ColF1679, mRNA sequence.
ACCESSION AUI06421
VERSION AUI06421.1 GI:14555942
KEYWORDS EST.
SOURCE human.
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Homiidae; Homo.
Suzuki,Y., Taira,H., Tsunoda,T., Mizushima-Sugano,J., Sese,J., Hata
,Y., Nakamura,Y., Suyama,A. and Sugano,S.
Email: ysu@ims.u-tokyo.ac.jp
S., construction and characterization of a full length enriched and
a 5' end-enriched cDNA library. Gene 200 (1-2), 149-156 (1997).

TITLE Diverse transcriptional initiation revealed by fine, large scale
mapping of mRNA start sites
EMBO Rep. 2 (5), 488-493 (2001)
COMMENT Contact: Yutaka Suzuki
Department of Virology
Institute of Medical Science, University of Tokyo
4-6-1, Shirokanedai, Minato-ku, Tokyo 108 86-69, Japan
Email: ysu@ims.u-tokyo.ac.jp
Suzuki,Y., Yoshitomo Nakagawa,K., Maruyama,K., Suyama,A. and Sugano
,Y., Nakamura,Y., Taira,H., Tsunoda,T., Tanaka,T., Morishita,S., Okubo,K., Sakaki
,Y. and Sugano,S.
Diverse transcriptional initiation revealed by fine, large scale
mapping of mRNA start sites
EMBO Rep. 2 (5), 488-493 (2001)
COMMENT Contact: Yutaka Suzuki
Department of Virology
Institute of Medical Science, University of Tokyo
4-6-1, Shirokanedai, Minato-ku, Tokyo 108 86-69, Japan
Email: ysu@ims.u-tokyo.ac.jp
Suzuki,Y., Yoshitomo Nakagawa,K., Maruyama,K., Suyama,A. and Sugano
,S., construction and characterization of a full length enriched and
a 5' end-enriched cDNA library. Gene 200 (1-2), 149-156 (1997).

FEATURES
source
  1..50
  /organism "Homo sapiens"
  /db_xref "taxon:9606"
  /clone "ColF401"
  /note "Sugano Homo sapiens cDNA Library"
  /note "Differential display comparison of untreated and
  dimethylformate treated 0947 cells"
  5' a 11 c 17 q 17 t

Query Match 61.0% Score 12.2; DB 9; Length 50;
Best Local Similarity 82.4% Pred. No. 9.4e+04;
Matches 14; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 4 GAGATTCCTCCCGG 20
DB 28 GAGATTCCTCCCGG 44

RESULT 20
AUI06440
LOCUS
DEFINITION AUI06440 Sugano Homo sapiens cDNA Library EST 40-AUG-2001
ColF1679, mRNA sequence.
ACCESSION AUI06440
VERSION AUI06440.1 GI:14555951
KEYWORDS EST.
SOURCE human.
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Homiidae; Homo.
Suzuki,Y., Taira,H., Tsunoda,T., Mizushima-Sugano,J., Sese,J., Hata
,Y., Nakamura,Y., Suyama,A. and Sugano,S.
Email: ysu@ims.u-tokyo.ac.jp
S., construction and characterization of a full length enriched and
a 5' end-enriched cDNA library. Gene 200 (1-2), 149-156 (1997).

TITLE Diverse transcriptional initiation revealed by fine, large scale
mapping of mRNA start sites
EMBO Rep. 2 (5), 488-493 (2001)
COMMENT Contact: Yutaka Suzuki
Department of Virology
Institute of Medical Science, University of Tokyo
4-6-1, Shirokanedai, Minato-ku, Tokyo 108 86-69, Japan
Email: ysu@ims.u-tokyo.ac.jp
Suzuki,Y., Yoshitomo Nakagawa,K., Maruyama,K., Suyama,A. and Sugano
,S., construction and characterization of a full length enriched and
a 5' end-enriched cDNA library. Gene 200 (1-2), 149-156 (1997).

FEATURES
source
  1..50
  /organism "Homo sapiens"
  /db_xref "taxon:9606"
  /clone "ColF401"
  /note "Sugano Homo sapiens cDNA Library"
  /note "Differential display comparison of untreated and
  dimethylformate treated 0947 cells"
  5' a 11 c 17 q 17 t

Query Match 61.0% Score 12.2; DB 9; Length 50;
Best Local Similarity 82.4% Pred. No. 9.4e+04;
Matches 14; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 4 GAGATTCCTCCCGG 20
DB 28 GAGATTCCTCCCGG 44

RESULT 20
AUI06440
LOCUS
DEFINITION AUI06440 Sugano Homo sapiens cDNA Library EST 40-AUG-2001
ColF1679, mRNA sequence.
ACCESSION AUI06440
VERSION AUI06440.1 GI:14555951
KEYWORDS EST.
SOURCE human.
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Homiidae; Homo.
Suzuki,Y., Taira,H., Tsunoda,T., Mizushima-Sugano,J., Sese,J., Hata
,Y., Nakamura,Y., Suyama,A. and Sugano,S.
Email: ysu@ims.u-tokyo.ac.jp
S., construction and characterization of a full length enriched and
a 5' end-enriched cDNA library. Gene 200 (1-2), 149-156 (1997).

TITLE Diverse transcriptional initiation revealed by fine, large scale
mapping of mRNA start sites
EMBO Rep. 2 (5), 488-493 (2001)
COMMENT Contact: Yutaka Suzuki
Department of Virology
Institute of Medical Science, University of Tokyo
4-6-1, Shirokanedai, Minato-ku, Tokyo 108 86-69, Japan
Email: ysu@ims.u-tokyo.ac.jp
Suzuki,Y., Yoshitomo Nakagawa,K., Maruyama,K., Suyama,A. and Sugano
,S., construction and characterization of a full length enriched and
a 5' end-enriched cDNA library. Gene 200 (1-2), 149-156 (1997).

FEATURES
source
  1..50
  /organism "Homo sapiens"
  /db_xref "taxon:9606"
  /clone "ColF401"
  /note "Sugano Homo sapiens cDNA Library"
  /note "Differential display comparison of untreated and
  dimethylformate treated 0947 cells"
  5' a 11 c 17 q 17 t

```

```

source
  1..50
  /organism "Homo sapiens"
  /db_xref "taxon:9606"
  /clone "ColF401"
  /note "Sugano Homo sapiens cDNA Library"
  /note "Differential display comparison of untreated and
  dimethylformate treated 0947 cells"
  5' a 11 c 17 q 17 t

Query Match 61.0% Score 12.2; DB 9; Length 50;
Best Local Similarity 82.4% Pred. No. 9.4e+04;
Matches 14; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 4 GAGATTCCTCCCGG 20
DB 28 GAGATTCCTCCCGG 44

RESULT 20
AUI06440
LOCUS
DEFINITION AUI06440 Sugano Homo sapiens cDNA Library EST 40-AUG-2001
ColF1679, mRNA sequence.
ACCESSION AUI06440
VERSION AUI06440.1 GI:14555951
KEYWORDS EST.
SOURCE human.
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Homiidae; Homo.
Suzuki,Y., Taira,H., Tsunoda,T., Mizushima-Sugano,J., Sese,J., Hata
,Y., Nakamura,Y., Suyama,A. and Sugano,S.
Email: ysu@ims.u-tokyo.ac.jp
S., construction and characterization of a full length enriched and
a 5' end-enriched cDNA library. Gene 200 (1-2), 149-156 (1997).

TITLE Diverse transcriptional initiation revealed by fine, large scale
mapping of mRNA start sites
EMBO Rep. 2 (5), 488-493 (2001)
COMMENT Contact: Yutaka Suzuki
Department of Virology
Institute of Medical Science, University of Tokyo
4-6-1, Shirokanedai, Minato-ku, Tokyo 108 86-69, Japan
Email: ysu@ims.u-tokyo.ac.jp
Suzuki,Y., Yoshitomo Nakagawa,K., Maruyama,K., Suyama,A. and Sugano
,S., construction and characterization of a full length enriched and
a 5' end-enriched cDNA library. Gene 200 (1-2), 149-156 (1997).

FEATURES
source
  1..50
  /organism "Homo sapiens"
  /db_xref "taxon:9606"
  /clone "ColF401"
  /note "Sugano Homo sapiens cDNA Library"
  /note "Differential display comparison of untreated and
  dimethylformate treated 0947 cells"
  5' a 11 c 17 q 17 t

Query Match 61.0% Score 12.2; DB 9; Length 50;
Best Local Similarity 82.4% Pred. No. 9.4e+04;
Matches 14; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 4 GAGATTCCTCCCGG 20
DB 28 GAGATTCCTCCCGG 44

RESULT 20
AUI06440
LOCUS
DEFINITION AUI06440 Sugano Homo sapiens cDNA Library EST 40-AUG-2001
ColF1679, mRNA sequence.
ACCESSION AUI06440
VERSION AUI06440.1 GI:14555951
KEYWORDS EST.
SOURCE human.
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Homiidae; Homo.
Suzuki,Y., Taira,H., Tsunoda,T., Mizushima-Sugano,J., Sese,J., Hata
,Y., Nakamura,Y., Suyama,A. and Sugano,S.
Email: ysu@ims.u-tokyo.ac.jp
S., construction and characterization of a full length enriched and
a 5' end-enriched cDNA library. Gene 200 (1-2), 149-156 (1997).

TITLE Diverse transcriptional initiation revealed by fine, large scale
mapping of mRNA start sites
EMBO Rep. 2 (5), 488-493 (2001)
COMMENT Contact: Yutaka Suzuki
Department of Virology
Institute of Medical Science, University of Tokyo
4-6-1, Shirokanedai, Minato-ku, Tokyo 108 86-69, Japan
Email: ysu@ims.u-tokyo.ac.jp
Suzuki,Y., Yoshitomo Nakagawa,K., Maruyama,K., Suyama,A. and Sugano
,S., construction and characterization of a full length enriched and
a 5' end-enriched cDNA library. Gene 200 (1-2), 149-156 (1997).

FEATURES
source
  1..50
  /organism "Homo sapiens"
  /db_xref "taxon:9606"
  /clone "ColF401"
  /note "Sugano Homo sapiens cDNA Library"
  /note "Differential display comparison of untreated and
  dimethylformate treated 0947 cells"
  5' a 11 c 17 q 17 t

```



```

/dB_xref="taxon:9606"
/cclone="ColF5168"
/cclone_lib="Sugano Homo sapiens cDNA library"
/Note="Differential display comparison of untreated and
dimethylfumarate treated 0937 cells"

BASE COUNT      5 a      11 c      17 g      17 t
ORIGIN
Query Match      61.0%; Score 12.2; DB 9; Length 50;
Best Local Similarity 82.4%; Pred. No. 9.4e+04;
Matches 14; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 4 GAGTCTCTCTGAGGG 20
DB 28 GAGTCTCTCTGAGGG 44

RESULT 21
AUI06443
LOCUS      50 bp      mRNA      linear      EST 30-AUG-2001
DEFINITION Sugano Homo sapiens cDNA library Homo sapiens cDNA clone
ColF5616, mRNA sequence.

ACCESSION      AUI06432
VERSION        AUI06432.1 GI:14555953
KEYWORDS       EST.
SOURCE         human.
ORGANISM       Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Homiidae; Homo.
1 (bases 1 to 50)
Suzuki,Y., Taira,H., Tsunoda,T., Mizushima-Sugano,J., Sese,J., Hata
H., Ota,T., Isodai,T., Tanaka,T., Morishita,S., Okubo,K., Sakaki
Y., Nakamura,Y., Suyama,A. and Sugano,S.
Diverse transcriptional initiation revealed by fine, large-scale
mapping of mRNA start sites
EMBO Rep. 2 (5), 388-393 (2001)
21270072
Contact: Yutaka Suzuki
Department of Virology
Institute of Medical Science, University of Tokyo
4-6-1, Shirokanedai, Minatoku, Tokyo 108-8639, Japan
Email: yusuzuki@ims.u-tokyo.ac.jp
Suzuki,Y., Yoshitomo-Nakadawa,K., Maruyama,K., Suyama,A. and Sugano
S. Construction and characterization of a full length-enriched and
a 5'-end-enriched cDNA library. Gene 200 (1-2), 149-156 (1997).

FEATURES
Location/Qualifiers
1..50
Jordanism "Homo sapiens"
/dB_xref="taxon:9606"
/cclone="ColF6266"
/cclone_lib="Sugano Homo sapiens cDNA library"
/Note="Differential display comparison of untreated and
dimethylfumarate treated 0937 cells"

BASE COUNT      5 a      11 c      17 g      17 t
ORIGIN
Query Match      61.0%; Score 12.2; DB 9; Length 50;
Best Local Similarity 82.4%; Pred. No. 9.4e+04;
Matches 14; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 4 GAGTCTCTCTGAGGG 20
DB 28 GAGTCTCTCTGAGGG 44

RESULT 24
AUI06445
LOCUS      50 bp      mRNA      linear      EST 30-AUG-2001
DEFINITION Sugano Homo sapiens cDNA library Homo sapiens cDNA clone
ColF6598, mRNA sequence.

ACCESSION      AUI06445
VERSION        AUI06445.1 GI:14555956
KEYWORDS       EST.
SOURCE         human.
ORGANISM       Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Homiidae; Homo.
1 (bases 1 to 50)
Suzuki,Y., Taira,H., Tsunoda,T., Mizushima-Sugano,J., Sese,J., Hata
H., Ota,T., Isodai,T., Tanaka,T., Morishita,S., Okubo,K., Sakaki
Y., Nakamura,Y., Suyama,A. and Sugano,S.
Diverse transcriptional initiation revealed by fine, large-scale
mapping of mRNA start sites
EMBO Rep. 2 (5), 388-393 (2001)
21270072
Contact: Yutaka Suzuki
Department of Virology
Institute of Medical Science, University of Tokyo
4-6-1, Shirokanedai, Minatoku, Tokyo 108-8639, Japan
Email: yusuzuki@ims.u-tokyo.ac.jp
Suzuki,Y., Yoshitomo-Nakadawa,K., Maruyama,K., Suyama,A. and Sugano
S. Construction and characterization of a full length-enriched and
a 5'-end-enriched cDNA library. Gene 200 (1-2), 149-156 (1997).

FEATURES
Location/Qualifiers
1..50
Jordanism "Homo sapiens"
/dB_xref="taxon:9606"
/cclone="ColF6598"

```



GenCore version 5.1.4\_p5\_4578  
Copyright (c) 1993 - 2003 CompuGen Ltd.

OM nucleic - nucleic search, using sw model

Run on: March 18, 2003, 10:49:51 ; Search time 470.82 Seconds  
(without alignments)  
1236.261 Million cell updates/sec

Title: US-09-900-115-1

Percent score: 20

Sequence: 1 qaqqcqqcatqqaqqc 20

Scoring table: IDENTITY\_NOC  
Gapop 10.0 , Gapext 1.0

Searched: 2054640 seqs, 14551402878 residues

Total number of hits satisfying chosen parameters: 841850

Minimum DB seq length: 0  
Maximum DB seq length: 50

Post-processing: Minimum Match 0%  
Maximum Match 100%  
Listing first 1000 summaries

Database :

GenBank:

1: qb\_ba:\*  
2: qb\_htq:\*  
3: qb\_in:\*  
4: qb\_om:\*  
5: qb\_ov:\*  
6: qb\_pat:\*  
7: qb\_ph:\*  
8: qb\_pl:\*  
9: qb\_pr:\*  
10: qb\_ro:\*  
11: qb\_sts:\*  
12: qb\_sy:\*  
13: qb\_un:\*  
14: qb\_vi:\*  
15: em\_ba:\*  
16: em\_fun:\*  
17: em\_hum:\*  
18: em\_in:\*  
19: em\_mu:\*  
20: em\_om:\*  
21: em\_or:\*  
22: em\_ov:\*  
23: em\_pat:\*  
24: em\_ph:\*  
25: em\_pl:\*  
26: em\_ro:\*  
27: em\_sts:\*  
28: em\_un:\*  
29: em\_vi:\*  
30: em\_htq\_hum:\*  
31: em\_htq\_inv:\*  
32: em\_htq\_other:\*  
33: em\_htq\_mus:\*  
34: em\_htq\_pin:\*  
35: em\_htq\_rod:\*  
36: em\_htq\_mam:\*  
37: em\_htq\_vrt:\*  
38: em\_sy:\*  
39: em\_htqo\_hum:\*  
40: em\_htqo\_mus:\*  
41: em\_htqo\_other:\*

Prod. No. is the number of results predicted by chance to have a

score greater than or equal to the score of the result being printed,  
and is derived by analysis of the total score distribution.

# SUMMARIES

Result No.	Score	% Match	Query Length	ID	Description
c 1	20	100.0	24	6	AR034498 Sequence
c 2	20	100.0	24	6	AR048598 Sequence
c 3	20	100.0	24	6	143402 Sequence 7
c 4	17	85.0	21	6	AR7853 Sequence 1
c 5	17	85.0	21	6	AR9820 Sequence 1
c 6	17	85.0	21	6	AR076428 Sequence
c 7	17	85.0	21	6	AR147757 Sequence
c 8	15.2	76.0	32	6	AR012838 Sequence
c 9	15.2	76.0	32	6	AR050309 Sequence
c 10	15.2	76.0	42	6	AR012833 Sequence
c 11	15.2	76.0	42	6	AR050304 Sequence
c 12	15.2	76.0	43	6	AR012834 Sequence
c 13	15.2	76.0	43	6	AR050305 Sequence
c 14	15.2	76.0	45	6	AX323471 Sequence
c 15	15	75.0	18	6	AR7859 Sequence 7
c 16	15	75.0	18	6	AR9826 Sequence 7
c 17	14.8	74.0	26	6	AR000169 Sequence
c 18	14.8	74.0	26	6	AR074609 Sequence
c 19	14.8	74.0	26	6	AR082406 Sequence
c 20	14.8	74.0	26	6	AR142099 Sequence
c 21	14.8	74.0	26	6	AR151424 Sequence
c 22	14.8	74.0	26	6	AR157417 Sequence
c 23	14.8	74.0	26	6	AR161626 Sequence
c 24	14.8	74.0	26	6	AR161627 Sequence
c 25	14.8	74.0	26	6	AR162179 Sequence
c 26	14.8	74.0	26	6	AX033901 Sequence
c 27	14.8	74.0	26	6	AX354325 Sequence
c 28	14.8	74.0	26	6	AX374668 Sequence
c 29	14.8	74.0	26	6	123773 Sequence 9
c 30	14.8	74.0	26	6	176189 Sequence 1
c 31	14.8	74.0	26	6	190085 Sequence 9
c 32	14.8	74.0	30	6	AR162180 Sequence
c 33	14.8	74.0	30	6	123774 Sequence 10
c 34	14.8	74.0	30	6	176190 Sequence 2
c 35	14.8	74.0	30	6	190086 Sequence 10
c 36	14.4	72.0	21	6	AX081384 Sequence
c 37	14.4	72.0	21	6	AX283214 Sequence
c 38	14.4	72.0	21	6	AX283284 Sequence
c 39	14.2	71.0	20	6	AR108704 Sequence
c 40	14.2	71.0	25	6	AR078835 Sequence
c 41	14.2	71.0	25	6	AR148147 Sequence
c 42	14.2	71.0	40	6	AX180800 Sequence
c 43	14	70.0	15	6	AR034499 Sequence
c 44	14	70.0	15	6	AR034500 Sequence
c 45	14	70.0	15	6	AR048599 Sequence
c 46	14	70.0	15	6	AR048600 Sequence
c 47	14	70.0	15	6	143403 Sequence 8
c 48	14	70.0	15	6	143404 Sequence 9
c 49	14	70.0	18	6	AR7858 Sequence 6
c 50	14	70.0	18	6	AR9825 Sequence 6
c 51	13.8	69.0	22	6	AX41353 Sequence
c 52	13.8	69.0	26	6	AR068436 Sequence
c 53	13.8	69.0	32	6	AR080203 Sequence
c 54	13.6	68.0	24	6	AX447467 Sequence
c 55	13.2	66.0	32	6	AR180976 Sequence
c 56	13.2	66.0	36	6	A63213 Sequence 11
c 57	13.2	66.0	45	6	AX055492 Sequence
c 58	13.2	66.0	50	6	AX157854 Sequence
c 59	12.8	64.0	26	6	AX024150 Sequence
c 60	12.8	64.0	27	6	143308 Sequence 12
c 61	12.8	64.0	31	6	AR3702 Sequence 29
c 62	12.6	63.0	19	6	AR181876 Sequence
c 63	12.6	63.0	20	6	AR029144 Sequence
c 64	12.6	63.0	20	6	AR036528 Sequence
c 65	12.6	63.0	20	6	AR062683 Sequence

c 66	12.6	63.0	20	6	AR094226	Sequence	139	12.2	61.0	38	6	176253	Sequence 81
c 67	12.6	63.0	20	6	AR094495	Sequence	140	12.2	61.0	39	6	158619	Sequence 5
c 68	12.6	63.0	20	6	AR096061	Sequence	141	12.2	61.0	39	6	164517	Sequence 5
c 69	12.6	63.0	20	6	AR099574	Sequence	142	12.2	61.0	41	6	AR0828	Sequence 20
c 70	12.6	63.0	20	6	AR1000410	Sequence	143	12.2	61.0	42	6	144199	Sequence 17
c 71	12.6	63.0	20	6	AR104786	Sequence	144	12.2	61.0	42	6	144204	Sequence 22
c 72	12.6	63.0	20	6	AR105608	Sequence	c 145	12.2	61.0	43	6	AR009801	Sequence
c 73	12.6	63.0	20	6	AR108705	Sequence	c 146	12.2	61.0	43	6	AR146520	Sequence
c 74	12.6	63.0	20	6	AR108794	Sequence	c 147	12.2	61.0	43	6	111825	Sequence 11
c 75	12.6	63.0	20	6	AR123270	Sequence	148	12.2	61.0	44	6	AR027559	Sequence
c 76	12.6	63.0	20	6	AR123342	Sequence	c 149	12.2	61.0	47	6	AR194950	Sequence
c 77	12.6	63.0	20	6	AR123343	Sequence	150	12.2	61.0	47	6	AR195002	Sequence
c 78	12.6	63.0	20	6	AR150055	Sequence	c 151	12.2	61.0	48	6	AR142717	Sequence
c 79	12.6	63.0	20	6	AR157078	Sequence	152	12.2	61.0	50	6	AR125800	Sequence
c 80	12.6	63.0	20	6	AR157081	Sequence	153	12.2	61.0	50	6	147212	Sequence 14
c 81	12.6	63.0	20	6	AR167445	Sequence	c 154	12.2	61.0	17	6	AR040075	Sequence
c 82	12.6	63.0	20	6	AR178855	Sequence	155	12.2	61.0	23	6	AR089634	Sequence
c 83	12.6	63.0	20	6	AR205804	Sequence	c 156	12.2	61.0	29	6	AR094163	Sequence
c 84	12.6	63.0	20	6	AR205805	Sequence	c 157	12.2	61.0	29	6	AR184045	Sequence
c 85	12.6	63.0	20	6	AR212294	Sequence	158	12.2	61.0	29	6	AR458296	Sequence
c 86	12.6	63.0	20	6	AR090046	Sequence	159	12.2	61.0	30	6	AR049373	Sequence
c 87	12.6	63.0	20	6	AR104067	Sequence	160	12.2	61.0	30	6	AR095534	Sequence
c 88	12.6	63.0	20	6	AR455751	Sequence	161	12.2	61.0	31	6	AR249078	Sequence
c 89	12.6	63.0	20	6	120685	Sequence 83	c 162	12.2	61.0	36	6	AR024287	Sequence
c 90	12.6	63.0	20	6	196732	Sequence 1	c 163	12.2	61.0	36	6	AR045140	Sequence
c 91	12.6	63.0	20	6	175066	Sequence 1	c 164	12.2	61.0	36	6	AR009715	Sequence
c 92	12.6	63.0	25	6	AR111928	Sequence	c 165	12.2	61.0	36	6	10011464	Sequence
c 93	12.6	63.0	25	6	AR145273	Sequence	c 166	12.2	61.0	36	6	144834	Sequence
c 94	12.6	63.0	25	6	AR076722	Sequence	c 167	12.2	61.0	37	6	A22078	Sequence
c 95	12.6	63.0	26	6	AR124825	Sequence	168	12.2	61.0	37	6	A22079	Sequence
c 96	12.6	63.0	27	6	AR030170	Sequence	169	12.2	61.0	37	6	AR211684	Sequence
c 97	12.6	63.0	30	6	AR125811	Sequence	c 170	12.2	61.0	38	6	AR071266	Sequence
c 98	12.6	63.0	30	6	147223	Sequence 15	c 171	12.2	61.0	39	6	AR45057	Sequence 32
c 99	12.6	63.0	30	9	H0MPTP29	Sequence	c 172	12.2	61.0	39	6	AR029673	Sequence
c 100	12.6	63.0	31	6	AR108176	Sequence	c 173	12.2	61.0	42	6	AR100501	Sequence
c 101	12.6	63.0	31	6	AR148626	Sequence	c 174	12.2	61.0	43	6	AR096933	Sequence
c 102	12.6	63.0	31	6	AR206677	Sequence	c 175	12.2	61.0	47	6	AR58501	Sequence 5
c 103	12.6	63.0	31	6	H0002742	Gene comp	176	12.2	61.0	50	6	AR156996	Sequence
c 104	12.6	63.0	34	6	AR468208	Sequence	c 177	12.2	61.0	50	6	AR204275	Sequence
c 105	12.6	63.0	43	6	100832	Sequence 4	178	12.2	61.0	50	9	HSE2R1N315	Sequence
c 106	12.6	63.0	43	6	100841	Sequence 4	c 179	11.8	59.0	15	6	AR028314	Sequence
c 107	12.6	63.0	43	6	106027	Sequence 1	180	11.8	59.0	17	6	AR7981	Sequence 12
c 108	12.6	63.0	50	6	AR199626	Sequence	181	11.8	59.0	17	6	AR9948	Sequence 12
c 109	12.6	63.0	50	6	AR397042	Sequence	c 182	11.8	59.0	17	6	AR186618	Sequence
c 110	12.4	62.0	20	6	AR148944	Sequence	c 183	11.8	59.0	18	6	AR004744	Sequence
c 111	12.4	62.0	20	6	AR148945	Sequence	184	11.8	59.0	19	6	AR097380	Sequence
c 112	12.4	62.0	20	6	AR148946	Sequence	185	11.8	59.0	19	6	125685	Sequence 4
c 113	12.4	62.0	20	6	AR148947	Sequence	186	11.8	59.0	21	6	AR086034	Sequence
c 114	12.4	62.0	40	6	AR092132	Sequence	187	11.8	59.0	23	6	AR7980	Sequence 12
c 115	12.4	62.0	40	6	AR148312	Sequence	188	11.8	59.0	23	6	AR9947	Sequence 12
c 116	12.4	62.0	50	6	AR164994	Sequence	189	11.8	59.0	24	6	127136	Sequence 32
c 117	12.2	61.0	17	6	AR4607	Sequence 26	190	11.8	59.0	24	6	127121	Sequence 17
c 118	12.2	61.0	18	6	AR157079	Sequence	c 191	11.8	59.0	25	6	138849	Sequence 10
c 119	12.2	61.0	18	6	AR211188	Sequence	192	11.8	59.0	26	6	AR4527	Sequence 2
c 120	12.2	61.0	18	6	AR259661	Sequence	193	11.8	59.0	26	6	AR142749	Sequence
c 121	12.2	61.0	19	6	AR259674	Sequence	c 194	11.8	59.0	28	6	AR016579	Sequence
c 122	12.2	61.0	20	6	AR181877	Sequence	c 195	11.8	59.0	28	6	AR106416	Sequence
c 123	12.2	61.0	20	6	AR167893	Sequence	c 196	11.8	59.0	28	6	AR149064	Sequence
c 124	12.2	61.0	24	6	AR111593	Sequence	197	11.8	59.0	29	6	AR450231	Sequence
c 125	12.2	61.0	24	6	AR158219	Sequence	c 198	11.8	59.0	29	6	AR151990	Sequence
c 126	12.2	61.0	24	6	143235	Sequence 54	199	11.8	59.0	29	6	AR151992	Sequence
c 127	12.2	61.0	25	6	143236	Sequence 54	c 200	11.8	59.0	30	6	AR073760	Sequence
c 128	12.2	61.0	28	6	AR062120	Sequence	201	11.8	59.0	33	6	AR459679	Sequence
c 129	12.2	61.0	28	6	AR062121	Sequence	202	11.8	59.0	34	6	AR003737	Sequence
c 130	12.2	61.0	28	6	AR064210	Sequence	203	11.8	59.0	34	6	AR023331	Sequence
c 131	12.2	61.0	28	6	AR064211	Sequence	c 204	11.8	59.0	35	6	AR001437	Sequence
c 132	12.2	61.0	29	6	140362	Sequence 7	205	11.8	59.0	36	6	AR207084	Sequence
c 133	12.2	61.0	30	6	AR007166	Sequence	c 206	11.8	59.0	39	6	AR207916	Sequence
c 134	12.2	61.0	32	6	AR429043	Sequence	c 207	11.8	59.0	39	6	AR207923	Sequence
c 135	12.2	61.0	33	6	AR152537	Sequence	c 208	11.8	59.0	43	6	AR049103	Sequence
c 136	12.2	61.0	38	6	AR009928	Sequence	c 209	11.8	59.0	34	6	112782	Sequence 1
c 137	12.2	61.0	48	6	AR080366	Sequence	c 210	11.8	59.0	36	6	AR114568	Sequence
c 138	12.2	61.0	48	6	AR418234	Sequence	c 211	11.8	59.0	36	6	AR482385	Sequence

212	11.6	58.0	19	6	AX129907	Sequence	285	11.6	58.0	35	6	AX382277	Sequence
c 213	11.6	58.0	19	6	AX130821	Sequence	286	11.6	58.0	35	6	AX382278	Sequence
c 214	11.6	58.0	19	6	AX382394	Sequence	287	11.6	58.0	35	6	AX382282	Sequence
c 215	11.6	58.0	19	6	AX382495	Sequence	288	11.6	58.0	35	6	AX382283	Sequence
c 216	11.6	58.0	20	6	AX382424	Sequence	289	11.6	58.0	35	6	AX382286	Sequence
c 217	11.6	58.0	20	6	AX382405	Sequence	290	11.6	58.0	35	6	AX382287	Sequence
c 218	11.6	58.0	20	6	AX382406	Sequence	291	11.6	58.0	36	6	AX382287	Sequence
c 219	11.6	58.0	20	6	AX382407	Sequence	292	11.6	58.0	36	6	AX391251	Sequence
c 220	11.6	58.0	20	6	E63361	DNA Fragment	293	11.6	58.0	36	6	AX39576	Sequence
c 221	11.6	58.0	21	6	AX382322	Sequence	294	11.6	58.0	36	6	AX39576	Sequence
c 222	11.6	58.0	21	6	AX382415	Sequence	295	11.6	58.0	36	6	AX39576	Sequence
c 223	11.6	58.0	21	6	AX382416	Sequence	296	11.6	58.0	37	6	AX201273	Sequence
c 224	11.6	58.0	21	6	AX382417	Sequence	297	11.6	58.0	37	6	AX201273	Sequence
c 225	11.6	58.0	21	6	AX382418	Sequence	298	11.6	58.0	37	6	AX201273	Sequence
c 226	11.6	58.0	22	6	AX382428	Sequence	299	11.6	58.0	39	6	AX406570	Sequence
c 227	11.6	58.0	22	6	AX382429	Sequence	300	11.6	58.0	39	6	AX406570	Sequence
c 228	11.6	58.0	22	6	AX382430	Sequence	301	11.6	58.0	39	6	AX406570	Sequence
c 229	11.6	58.0	22	6	AX382431	Sequence	302	11.6	58.0	40	6	AX201283	Sequence
c 230	11.6	58.0	22	6	AX382432	Sequence	303	11.6	58.0	40	6	AX201283	Sequence
c 231	11.6	58.0	22	6	AX382433	Sequence	304	11.6	58.0	44	6	AX013766	Sequence
c 232	11.6	58.0	22	6	AX382434	Sequence	305	11.6	58.0	44	6	AX013766	Sequence
c 233	11.6	58.0	22	9	HSTC411	Sequence	306	11.6	58.0	45	6	AX013766	Sequence
c 234	11.6	58.0	23	6	AX128376	Sequence	307	11.6	58.0	45	6	AX202637	Sequence
c 235	11.6	58.0	23	6	AX382318	Sequence	308	11.6	58.0	45	6	AX202637	Sequence
c 236	11.6	58.0	23	6	AX382319	Sequence	309	11.6	58.0	45	6	AX202637	Sequence
c 237	11.6	58.0	23	6	AX382320	Sequence	310	11.6	58.0	45	6	AX202637	Sequence
c 238	11.6	58.0	23	6	AX382321	Sequence	311	11.6	58.0	45	6	AX202637	Sequence
c 239	11.6	58.0	23	6	AX382322	Sequence	312	11.6	58.0	45	6	AX202637	Sequence
c 240	11.6	58.0	23	6	AX382323	Sequence	313	11.6	58.0	45	6	AX202637	Sequence
c 241	11.6	58.0	23	6	AX382324	Sequence	314	11.6	58.0	45	6	AX202637	Sequence
c 242	11.6	58.0	23	6	AX382325	Sequence	315	11.6	58.0	45	6	AX202637	Sequence
c 243	11.6	58.0	24	6	AX382326	Sequence	316	11.6	58.0	45	6	AX202637	Sequence
c 244	11.6	58.0	24	6	AX382327	Sequence	317	11.6	58.0	45	6	AX202637	Sequence
c 245	11.6	58.0	24	6	AX382328	Sequence	318	11.6	58.0	45	6	AX202637	Sequence
c 246	11.6	58.0	24	6	AX382329	Sequence	319	11.6	58.0	45	6	AX202637	Sequence
c 247	11.6	58.0	24	6	AX382330	Sequence	320	11.6	58.0	45	6	AX202637	Sequence
c 248	11.6	58.0	24	6	AX382331	Sequence	321	11.6	58.0	45	6	AX202637	Sequence
c 249	11.6	58.0	24	6	AX382332	Sequence	322	11.6	58.0	45	6	AX202637	Sequence
c 250	11.6	58.0	24	6	AX382333	Sequence	323	11.6	58.0	45	6	AX202637	Sequence
c 251	11.6	58.0	24	6	AX382334	Sequence	324	11.6	58.0	45	6	AX202637	Sequence
c 252	11.6	58.0	24	6	AX382335	Sequence	325	11.6	58.0	45	6	AX202637	Sequence
c 253	11.6	58.0	24	6	AX382336	Sequence	326	11.6	58.0	45	6	AX202637	Sequence
c 254	11.6	58.0	24	6	AX382337	Sequence	327	11.6	58.0	45	6	AX202637	Sequence
c 255	11.6	58.0	24	6	AX382338	Sequence	328	11.6	58.0	45	6	AX202637	Sequence
c 256	11.6	58.0	24	6	AX382339	Sequence	329	11.6	58.0	45	6	AX202637	Sequence
c 257	11.6	58.0	24	6	AX382340	Sequence	330	11.6	58.0	45	6	AX202637	Sequence
c 258	11.6	58.0	24	6	AX382341	Sequence	331	11.6	58.0	45	6	AX202637	Sequence
c 259	11.6	58.0	24	6	AX382342	Sequence	332	11.6	58.0	45	6	AX202637	Sequence
c 260	11.6	58.0	24	6	AX382343	Sequence	333	11.6	58.0	45	6	AX202637	Sequence
c 261	11.6	58.0	24	6	AX382344	Sequence	334	11.6	58.0	45	6	AX202637	Sequence
c 262	11.6	58.0	24	6	AX382345	Sequence	335	11.6	58.0	45	6	AX202637	Sequence
c 263	11.6	58.0	24	6	AX382346	Sequence	336	11.6	58.0	45	6	AX202637	Sequence
c 264	11.6	58.0	24	6	AX382347	Sequence	337	11.6	58.0	45	6	AX202637	Sequence
c 265	11.6	58.0	24	6	AX382348	Sequence	338	11.6	58.0	45	6	AX202637	Sequence
c 266	11.6	58.0	24	6	AX382349	Sequence	339	11.6	58.0	45	6	AX202637	Sequence
c 267	11.6	58.0	24	6	AX382350	Sequence	340	11.6	58.0	45	6	AX202637	Sequence
c 268	11.6	58.0	24	6	AX382351	Sequence	341	11.6	58.0	45	6	AX202637	Sequence
c 269	11.6	58.0	24	6	AX382352	Sequence	342	11.6	58.0	45	6	AX202637	Sequence
c 270	11.6	58.0	24	6	AX382353	Sequence	343	11.6	58.0	45	6	AX202637	Sequence
c 271	11.6	58.0	24	6	AX382354	Sequence	344	11.6	58.0	45	6	AX202637	Sequence
c 272	11.6	58.0	24	6	AX382355	Sequence	345	11.6	58.0	45	6	AX202637	Sequence
c 273	11.6	58.0	24	6	AX382356	Sequence	346	11.6	58.0	45	6	AX202637	Sequence
c 274	11.6	58.0	24	6	AX382357	Sequence	347	11.6	58.0	45	6	AX202637	Sequence
c 275	11.6	58.0	24	6	AX382358	Sequence	348	11.6	58.0	45	6	AX202637	Sequence
c 276	11.6	58.0	24	6	AX382359	Sequence	349	11.6	58.0	45	6	AX202637	Sequence
c 277	11.6	58.0	24	6	AX382360	Sequence	350	11.6	58.0	45	6	AX202637	Sequence
c 278	11.6	58.0	24	6	AX382361	Sequence	351	11.6	58.0	45	6	AX202637	Sequence
c 279	11.6	58.0	24	6	AX382362	Sequence	352	11.6	58.0	45	6	AX202637	Sequence
c 280	11.6	58.0	24	6	AX382363	Sequence	353	11.6	58.0	45	6	AX202637	Sequence
c 281	11.6	58.0	24	6	AX382364	Sequence	354	11.6	58.0	45	6	AX202637	Sequence
c 282	11.6	58.0	24	6	AX382365	Sequence	355	11.6	58.0	45	6	AX202637	Sequence
c 283	11.6	58.0	24	6	AX382366	Sequence	356	11.6	58.0	45	6	AX202637	Sequence
c 284	11.6	58.0	24	6	AX382367	Sequence	357	11.6	58.0	45	6	AX202637	Sequence

358	11.2	56.0	20	6	Ar212052	Sequence	4.41	11.2	56.0	50	6	155881	155881 Sequence 11
359	11.2	56.0	20	6	Ar110179	Sequence	c 4.42	11.2	56.0	51	6	Ar173285	Ar173285 Sequence
360	11.2	56.0	20	6	Ar454652	Sequence	4.44	11.2	56.0	51	6	Ar248068	Ar248068 Sequence
361	11.2	56.0	21	6	Ar031300	Sequence	4.44	11.2	56.0	51	6	Ar248067	Ar248067 Sequence
362	11.2	56.0	21	6	Ar031304	Sequence	4.45	11.2	56.0	51	6	Ar248070	Ar248070 Sequence
c 363	11.2	56.0	21	6	Ar095778	Sequence	4.46	11.2	56.0	51	6	Ar248704	Ar248704 Sequence
364	11.2	56.0	21	6	Ar146087	Sequence	4.47	11.2	56.0	51	6	Ar085446	Ar085446 Sequence
c 365	11.2	56.0	22	6	Ar298417	Sequence	4.48	11.2	56.0	54	6	Ar183977	Ar183977 Sequence
c 366	11.2	56.0	24	6	Ar005823	Sequence	4.49	11.2	56.0	55	6	Ar068195	Ar068195 Sequence
c 367	11.2	56.0	24	6	127135	Sequence 41	4.40	11.2	56.0	55	6	Ar076947	Ar076947 Sequence
c 368	11.2	56.0	24	6	Ar026174	Sequence	4.41	11.2	56.0	55	6	Ar078780	Ar078780 Sequence
c 369	11.2	56.0	24	6	Ar026254	Sequence	4.42	11.2	56.0	56	6	Ar054803	Ar054803 Sequence
c 370	11.2	56.0	24	6	Ar026291	Sequence	4.43	11.2	56.0	56	6	Ar066068	Ar066068 Sequence
c 371	11.2	56.0	24	6	Ar026295	Sequence	c 4.44	11.2	56.0	57	6	Ar111714	Ar111714 Sequence
c 372	11.2	56.0	24	6	Ar066590	Sequence	4.45	11.2	56.0	57	6	Ar052940	Ar052940 Sequence
c 373	11.2	56.0	24	6	Ar078136	Sequence	4.46	11.2	56.0	58	6	Ar012842	Ar012842 Sequence
c 374	11.2	56.0	24	6	Ar156075	Sequence	4.47	11.2	56.0	58	6	Ar050403	Ar050403 Sequence
c 375	11.2	56.0	24	6	Ar103889	Sequence	4.48	11.2	56.0	58	6	Ar111791	Ar111791 Sequence
c 376	11.2	56.0	24	6	Ar290041	Sequence	4.49	11.2	56.0	58	6	Ar127601	Ar127601 Sequence
c 377	11.2	56.0	24	6	Ar355412	Sequence	c 4.50	11.2	56.0	58	6	Ar112440	Ar112440 Sequence
c 378	11.2	56.0	24	6	E37409	Recombinant	4.51	11.2	56.0	58	6	175270	175270 Sequence 19
c 379	11.2	56.0	24	6	106857	Sequence 1	c 4.52	11.2	56.0	59	6	Ar146944	Ar146944 Sequence
c 380	11.2	56.0	24	6	127115	Sequence 11	4.53	11.2	56.0	59	6	Ar079893	Ar079893 Sequence
c 381	11.2	56.0	24	6	167872	Sequence 8	c 4.54	11.2	56.0	59	6	Ar099682	Ar099682 Sequence
c 382	11.2	56.0	24	6	182916	Sequence 18	c 4.55	11.2	56.0	40	6	Ar328297	Ar328297 Sequence
c 383	11.2	56.0	24	6	182936	Sequence 98	4.56	11.2	56.0	40	6	115944	115944 Sequence 45
c 384	11.2	56.0	24	6	183033	Sequence 13	4.57	11.2	56.0	40	6	196143	196143 Sequence 45
c 385	11.2	56.0	24	6	183037	Sequence 13	4.58	11.2	56.0	41	6	E14249	E14249 of 1000000
c 386	11.2	56.0	25	6	Ar054297	Sequence	c 4.59	11.2	56.0	42	6	Ar091564	Ar091564 Sequence
c 387	11.2	56.0	25	6	Ar126759	Sequence	c 4.60	11.2	56.0	42	6	Ar151065	Ar151065 Sequence
c 388	11.2	56.0	25	6	Ar142069	Sequence	c 4.61	11.2	56.0	42	6	E15021	E15021 10R pr 1000
c 389	11.2	56.0	25	6	B0009966	Met 100 to	c 4.62	11.2	56.0	43	6	Ar091560	Ar091560 Sequence
c 390	11.2	56.0	25	6	127147	Sequence 43	c 4.63	11.2	56.0	44	6	Ar329817	Ar329817 Sequence
c 391	11.2	56.0	25	6	140916	Sequence 31	c 4.64	11.2	56.0	45	6	Ar0867	Ar0867 Sequence 21
c 392	11.2	56.0	25	6	159946	Sequence 64	c 4.65	11.2	56.0	45	6	A73055	A73055 Sequence 41
c 393	11.2	56.0	25	6	186794	Sequence 63	c 4.66	11.2	56.0	45	6	A73147	A73147 Sequence 41
c 394	11.2	56.0	25	6	195819	Sequence 63	4.67	11.2	56.0	45	6	Ar045459	Ar045459 Sequence
c 395	11.2	56.0	26	6	Ar183975	Sequence	c 4.68	11.2	56.0	45	6	Ar117917	Ar117917 Sequence
c 396	11.2	56.0	26	6	127148	Sequence 44	c 4.69	11.2	56.0	45	6	Ar126951	Ar126951 Sequence
c 397	11.2	56.0	26	6	127149	Sequence 45	c 4.70	11.2	56.0	45	6	Ar174696	Ar174696 Sequence
c 398	11.2	56.0	27	6	A31746	Met 1000000	4.71	11.2	56.0	45	6	E34948	E34948 11.6 100000
c 399	11.2	56.0	27	6	Ar156078	Sequence	4.72	11.2	56.0	46	6	E52011	E52011 11.6 100000
c 400	11.2	56.0	27	6	Ar204715	Sequence	4.73	11.2	56.0	46	6	Ar183152	Ar183152 Sequence
c 401	11.2	56.0	27	6	Ar306700	Sequence	4.74	11.2	56.0	48	6	Ar203289	Ar203289 Sequence
c 402	11.2	56.0	27	6	Ar306701	Sequence	4.75	11.2	56.0	48	6	Ar277063	Ar277063 Sequence
c 403	11.2	56.0	27	6	120727	Sequence 40	4.76	11.2	56.0	49	6	Ar091563	Ar091563 Sequence
c 404	11.2	56.0	28	6	Ar066591	Sequence	c 4.77	11.2	56.0	49	6	Ar091569	Ar091569 Sequence
c 405	11.2	56.0	28	6	Ar156076	Sequence	4.78	11.2	56.0	50	6	A25419	A25419 of 1000000
c 406	11.2	56.0	28	6	E37410	Recombinant	4.79	11.2	56.0	50	6	Ar091559	Ar091559 Sequence
c 407	11.2	56.0	28	6	106858	Sequence 2	4.80	11.2	56.0	50	6	Ar096979	Ar096979 Sequence
c 408	11.2	56.0	29	6	146910	Sequence 3	c 4.81	11.2	56.0	50	6	Ar160601	Ar160601 Sequence
c 409	11.2	56.0	30	6	A41596	Sequence 5	4.82	11.2	56.0	50	6	115064	115064 Sequence 20
c 410	11.2	56.0	30	6	A50804	Sequence 25	4.83	11.2	56.0	50	6	117138	117138 Sequence 20
c 411	11.2	56.0	30	6	A78515	Sequence 6	c 4.84	11.2	56.0	50	6	Ar168416	Ar168416 Homo sapi
c 412	11.2	56.0	30	6	A95638	Sequence 5	4.85	11	55.0	15	6	172535	172535 Sequence 5
c 413	11.2	56.0	30	6	A95700	Sequence 5	4.86	11	55.0	15	6	178495	178495 Sequence 6
c 414	11.2	56.0	30	6	A95742	Sequence 5	4.87	11	55.0	20	6	Ar140157	Ar140157 Sequence
c 415	11.2	56.0	30	6	A95784	Sequence 5	c 4.88	11	55.0	20	6	Ar157080	Ar157080 Sequence
c 416	11.2	56.0	30	6	A96879	Sequence 1	c 4.89	11	55.0	20	6	Ar205806	Ar205806 Sequence
c 417	11.2	56.0	30	6	Ar109995	Sequence	4.90	11	55.0	20	6	Ar009036	Ar009036 Sequence
c 418	11.2	56.0	30	6	Ar116275	Sequence	c 4.91	11	55.0	20	6	Ar148943	Ar148943 Sequence
c 419	11.2	56.0	30	6	Ar160596	Sequence	4.92	11	55.0	20	6	Ar191315	Ar191315 Sequence
c 420	11.2	56.0	30	6	Ar184150	Sequence	4.93	11	55.0	20	6	Ar224947	Ar224947 Sequence
c 421	11.2	56.0	30	6	Ar184160	Sequence	4.94	11	55.0	20	6	Ar224947	Ar224947 Sequence
c 422	11.2	56.0	30	6	Ar204287	Sequence	c 4.95	11	55.0	20	6	172534	172534 Sequence 17
c 423	11.2	56.0	30	6	Ar204297	Sequence	c 4.96	11	55.0	21	6	A28676	A28676 disRNA with
c 424	11.2	56.0	30	6	Ar024031	Sequence	c 4.97	11	55.0	21	6	Ar011693	Ar011693 Sequence
c 425	11.2	56.0	30	6	Ar166282	Sequence	c 4.98	11	55.0	21	6	Ar092293	Ar092293 Sequence
c 426	11.2	56.0	30	6	Ar195432	Sequence	c 4.99	11	55.0	21	6	Ar119510	Ar119510 Sequence
c 427	11.2	56.0	30	6	Ar277061	Sequence	c 5.00	11	55.0	21	6	Ar122427	Ar122427 Sequence
c 428	11.2	56.0	30	6	Ar277071	Sequence	5.01	11	55.0	21	6	Ar092713	Ar092713 Sequence
c 429	11.2	56.0	30	6	E14027	Probe, 7/19	c 5.02	11	55.0	21	6	140067	140067 Sequence 3
c 430	11.2	56.0	30	6	E26941	Vascular en	5.03	11	55.0	22	6	A27787	A27787 of 1000000

504	11	55.0	22	6	AX009038	Sequence	AX009038	Sequence	577	11	55.0	39	6	AX468766	Sequence
505	11	55.0	22	6	AX074452	Sequence	AX074452	Sequence	578	11	55.0	39	6	AX468771	Sequence
506	11	55.0	23	6	AR040209	Sequence	AR040209	Sequence	579	11	55.0	39	6	116904	Sequence
507	11	55.0	24	6	AR094559	Sequence	AR094559	Sequence	580	11	55.0	39	6	169497	Sequence
508	11	55.0	24	6	AX286364	Sequence	AX286364	Sequence	581	11	55.0	40	6	AR079796	Sequence
509	11	55.0	24	6	AX447454	Sequence	AX447454	Sequence	582	11	55.0	40	6	AR081326	Sequence
510	11	55.0	24	6	E62947	Mast cell s	E62947	Mast cell s	583	11	55.0	40	6	AR170686	Sequence
511	11	55.0	25	6	AR022311	Sequence	AR022311	Sequence	584	11	55.0	40	6	AX083187	Sequence
512	11	55.0	25	6	AX019249	Sequence	AX019249	Sequence	585	11	55.0	40	6	AX107060	Sequence
513	11	55.0	25	6	AX117428	Sequence	AX117428	Sequence	586	11	55.0	40	6	AX127616	Sequence
514	11	55.0	26	6	AX37852	Sequence	AX37852	Sequence	587	11	55.0	40	6	AX155268	Sequence
515	11	55.0	26	6	A65657	Sequence	A65657	Sequence	588	11	55.0	40	6	AX206864	Sequence
516	11	55.0	26	6	AR069890	Sequence	AR069890	Sequence	589	11	55.0	40	6	AX212447	Sequence
517	11	55.0	26	6	AR099287	Sequence	AR099287	Sequence	590	11	55.0	40	6	AX213290	Sequence
518	11	55.0	26	6	AR124171	Sequence	AR124171	Sequence	591	11	55.0	40	6	AX233641	Sequence
519	11	55.0	27	6	A28838	DNA constru	A28838	DNA constru	592	11	55.0	40	6	AX285306	Sequence
520	11	55.0	27	6	AR091539	Sequence	AR091539	Sequence	593	11	55.0	40	6	AX369441	Sequence
521	11	55.0	27	6	AR102232	Sequence	AR102232	Sequence	594	11	55.0	40	6	AX379603	Sequence
522	11	55.0	27	6	E62945	Mast cell s	E62945	Mast cell s	595	11	55.0	40	6	AX421189	Sequence
523	11	55.0	27	6	185780	Sequence	185780	Sequence	596	11	55.0	40	6	AX421201	Sequence
524	11	55.0	27	6	185782	Sequence	185782	Sequence	597	11	55.0	40	6	AX443025	Sequence
525	11	55.0	29	6	AR068882	Sequence	AR068882	Sequence	598	11	55.0	40	6	AX459619	Sequence
526	11	55.0	29	6	E07972	Primer. 9/1	E07972	Primer. 9/1	599	11	55.0	40	6	AX466361	Sequence
527	11	55.0	30	6	A65658	Sequence	A65658	Sequence	600	11	55.0	40	6	E05618	Primer for
528	11	55.0	30	6	AR016486	Sequence	AR016486	Sequence	601	11	55.0	42	6	A50272	Sequence
529	11	55.0	30	6	AR016491	Sequence	AR016491	Sequence	602	11	55.0	42	6	AR001462	Sequence
530	11	55.0	30	6	AR078334	Sequence	AR078334	Sequence	603	11	55.0	42	6	AR055507	Sequence
531	11	55.0	30	6	AR078336	Sequence	AR078336	Sequence	604	11	55.0	42	6	AR085390	Sequence
532	11	55.0	30	6	AR121236	Sequence	AR121236	Sequence	605	11	55.0	42	6	AR116992	Sequence
533	11	55.0	30	6	AR173054	Sequence	AR173054	Sequence	606	11	55.0	42	6	AX045623	Sequence
534	11	55.0	30	6	AR173056	Sequence	AR173056	Sequence	607	11	55.0	42	6	AX046499	Sequence
535	11	55.0	30	6	AX267025	Sequence	AX267025	Sequence	608	11	55.0	42	6	AX395323	Sequence
536	11	55.0	30	6	AX418211	Sequence	AX418211	Sequence	609	11	55.0	43	6	A28677	Oligonucleo
537	11	55.0	30	6	BD011299	Human tel	BD011299	Human tel	610	11	55.0	43	6	A28678	Oligonucleo
538	11	55.0	30	6	E37048	Human telom	E37048	Human telom	611	11	55.0	43	6	E07971	Primer. 9/1
539	11	55.0	30	7	PF0PRGMNT2	Bacterioph	107984	Bacterioph	612	11	55.0	44	6	A28674	dsRNA with
540	11	55.0	30	10	MMHNF115A	M.musculus	X66555	M.musculus	613	11	55.0	44	6	BD000479	Sequence
541	11	55.0	30	10	MMHNF116A	M.musculus	X66557	M.musculus	614	11	55.0	44	9	HUMSPARC01	Human osteo
542	11	55.0	30	10	MMHNF117A	M.musculus	X66579	M.musculus	615	11	55.0	45	4	AR022057	Canis tam
543	11	55.0	31	6	AR016489	Sequence	AR016489	Sequence	616	11	55.0	45	6	AR032679	Sequence
544	11	55.0	31	6	AR168787	Sequence	AR168787	Sequence	617	11	55.0	45	6	AR209343	Sequence
545	11	55.0	31	6	AR200256	Sequence	AR200256	Sequence	618	11	55.0	45	6	129419	Sequence
546	11	55.0	31	6	AX249348	Sequence	AX249348	Sequence	619	11	55.0	45	6	191093	Sequence
547	11	55.0	31	6	127781	Sequence	127781	Sequence	620	11	55.0	46	6	A52096	Sequence
548	11	55.0	32	6	AR008041	Sequence	AR008041	Sequence	621	11	55.0	46	6	AX212280	Sequence
549	11	55.0	32	6	AR064674	Sequence	AR064674	Sequence	622	11	55.0	46	6	105515	Sequence
550	11	55.0	32	6	AR080568	Sequence	AR080568	Sequence	623	11	55.0	46	6	109143	Sequence
551	11	55.0	32	6	AR100269	Sequence	AR100269	Sequence	624	11	55.0	47	6	A28685	Oligonucleo
552	11	55.0	32	6	126586	Sequence	126586	Sequence	625	11	55.0	48	6	AX164149	Sequence
553	11	55.0	32	6	156807	Sequence	156807	Sequence	626	11	55.0	48	6	182401	Sequence
554	11	55.0	33	6	AR064668	Sequence	AR064668	Sequence	627	11	55.0	48	9	S34436	glycoprotei
555	11	55.0	33	6	AR080562	Sequence	AR080562	Sequence	628	11	55.0	50	6	A51123	Sequence
556	11	55.0	33	6	AX033433	Sequence	AX033433	Sequence	629	11	55.0	50	6	AR032762	Sequence
557	11	55.0	33	6	AX033443	Sequence	AX033443	Sequence	630	11	55.0	50	6	AR032961	Sequence
558	11	55.0	33	6	BD011022	HIV probe	BD011022	HIV probe	631	11	55.0	50	6	AR032962	Sequence
559	11	55.0	33	6	156801	Sequence	156801	Sequence	632	11	55.0	50	6	AR194382	Sequence
560	11	55.0	33	6	182403	Sequence	182403	Sequence	633	11	55.0	50	6	AR209426	Sequence
561	11	55.0	35	6	AX005813	Sequence	AX005813	Sequence	634	11	55.0	50	6	AR209625	Sequence
562	11	55.0	35	6	AX431457	Sequence	AX431457	Sequence	635	11	55.0	50	6	AR209626	Sequence
563	11	55.0	35	6	E55297	Novel metal	E55297	Novel metal	636	11	55.0	50	6	AX097492	Sequence
564	11	55.0	35	6	176276	Sequence	176276	Sequence	637	11	55.0	50	6	AX159730	Sequence
565	11	55.0	36	6	AR138459	Sequence	AR138459	Sequence	638	11	55.0	50	6	AX160060	Sequence
566	11	55.0	36	6	AR138461	Sequence	AR138461	Sequence	639	11	55.0	50	6	AX160062	Sequence
567	11	55.0	36	6	AR200509	Sequence	AR200509	Sequence	640	11	55.0	50	6	AX162632	Sequence
568	11	55.0	36	6	AX088147	Sequence	AX088147	Sequence	641	11	55.0	50	6	AX199582	Sequence
569	11	55.0	36	6	AX088149	Sequence	AX088149	Sequence	642	11	55.0	50	6	AX430850	Sequence
570	11	55.0	36	6	AX406818	Sequence	AX406818	Sequence	643	11	55.0	50	6	129502	Sequence
571	11	55.0	37	6	AR150960	Sequence	AR150960	Sequence	644	11	55.0	50	6	129701	Sequence
572	11	55.0	37	6	E13251	Oligonucleo	E13251	Oligonucleo	645	11	55.0	50	6	129702	Sequence
573	11	55.0	37	9	AB055779	Homo sapi	AB055779	Homo sapi	646	11	55.0	50	6	191176	Sequence
574	11	55.0	38	6	AX068401	Sequence	AX068401	Sequence	647	11	55.0	50	6	191375	Sequence
575	11	55.0	39	6	AR007970	Sequence	AR007970	Sequence	648	11	55.0	50	6	191376	Sequence
576	11	55.0	39	6	AX370386	Sequence	AX370386	Sequence	649	10, 8	54.0	14	6	AX382348	Sequence

c 650	10.8	54.0	15	6	AR103413 Sequence	c 723	10.8	54.0	23	6	AR159736 Sequence
c 651	10.8	54.0	15	6	AX382267 Sequence	c 724	10.8	54.0	23	6	AR160426 Sequence
c 652	10.8	54.0	15	6	AX382461 Sequence	c 725	10.8	54.0	23	6	AR160428 Sequence
c 653	10.8	54.0	15	6	AX382463 Sequence	c 726	10.8	54.0	23	6	AR202382 Sequence
c 654	10.8	54.0	18	6	AR092827 Sequence	c 727	10.8	54.0	23	6	AR202384 Sequence
c 655	10.8	54.0	18	6	AX118495 Sequence	c 728	10.8	54.0	23	6	127143 Sequence
c 656	10.8	54.0	18	6	AX127011 Sequence	c 729	10.8	54.0	23	6	AR083193 Sequence
c 657	10.8	54.0	19	6	AR1506 Sequence	c 730	10.8	54.0	23	6	AR148638 Sequence
c 658	10.8	54.0	19	6	AX382393 Sequence	c 731	10.8	54.0	24	6	AX289447 Sequence
c 659	10.8	54.0	20	6	AX2346 Sequence	c 732	10.8	54.0	24	6	AX447463 Sequence
c 660	10.8	54.0	20	6	AX2375 Sequence	c 733	10.8	54.0	24	6	127112 Sequence
c 661	10.8	54.0	20	6	AX3435 Sequence	c 734	10.8	54.0	24	6	127114 Sequence
c 662	10.8	54.0	20	6	AX3457 Sequence	c 735	10.8	54.0	24	6	127122 Sequence
c 663	10.8	54.0	20	6	AX3458 Sequence	c 736	10.8	54.0	24	6	127155 Sequence
c 664	10.8	54.0	20	6	AX3459 Sequence	c 737	10.8	54.0	25	6	AR031721 Sequence
c 665	10.8	54.0	20	6	AX3462 Sequence	c 738	10.8	54.0	25	6	AR147372 Sequence
c 666	10.8	54.0	20	6	AX3464 Sequence	c 739	10.8	54.0	25	6	127147 Sequence
c 667	10.8	54.0	20	6	AX3465 Sequence	c 740	10.8	54.0	25	6	127144 Sequence
c 668	10.8	54.0	20	6	AX3478 Sequence	c 741	10.8	54.0	25	6	127145 Sequence
c 669	10.8	54.0	20	6	AX3479 Sequence	c 742	10.8	54.0	25	6	127146 Sequence
c 670	10.8	54.0	20	6	AX3480 Sequence	c 743	10.8	54.0	26	6	AR148920 Sequence
c 671	10.8	54.0	20	6	AX3486 Sequence	c 744	10.8	54.0	27	6	AX190633 Sequence
c 672	10.8	54.0	20	6	AX3487 Sequence	c 745	10.8	54.0	28	6	AR148922 Sequence
c 673	10.8	54.0	20	6	AX3488 Sequence	c 746	10.8	54.0	28	6	AR148927 Sequence
c 674	10.8	54.0	20	6	AX3489 Sequence	c 747	10.8	54.0	28	6	AX080007 Sequence
c 675	10.8	54.0	20	6	AX3490 Sequence	c 748	10.8	54.0	28	6	127198 Repeat Unit
c 676	10.8	54.0	20	6	AX3491 Sequence	c 749	10.8	54.0	29	6	127116 Sequence
c 677	10.8	54.0	20	6	AX3492 Sequence	c 750	10.8	54.0	29	6	AR154123 Sequence
c 678	10.8	54.0	20	6	AX3497 Sequence	c 751	10.8	54.0	29	6	AX382305 Sequence
c 679	10.8	54.0	20	6	AR7164 Sequence	c 752	10.8	54.0	29	6	127930 DNA encoding
c 680	10.8	54.0	20	6	AX56640 Sequence	c 753	10.8	54.0	30	6	AX382403 Sequence
c 681	10.8	54.0	20	6	AX64980 Sequence	c 754	10.8	54.0	30	6	127154 Sequence
c 682	10.8	54.0	20	6	AR0361 Sequence	c 755	10.8	54.0	31	6	AX33087 Sequence
c 683	10.8	54.0	20	6	AR111764 Sequence	c 756	10.8	54.0	31	6	AX248257 Sequence
c 684	10.8	54.0	20	6	AR164978 Sequence	c 757	10.8	54.0	31	6	AX248325 Sequence
c 685	10.8	54.0	20	6	AR168860 Sequence	c 758	10.8	54.0	31	6	AX382301 Sequence
c 686	10.8	54.0	20	6	AR173804 Sequence	c 759	10.8	54.0	31	6	AX477731 Sequence
c 687	10.8	54.0	20	6	AR193503 Sequence	c 760	10.8	54.0	31	6	AX477732 Sequence
c 688	10.8	54.0	20	6	AR200329 Sequence	c 761	10.8	54.0	32	6	AR061126 Sequence
c 689	10.8	54.0	20	6	AX081336 Sequence	c 762	10.8	54.0	32	6	AX382299 Sequence
c 690	10.8	54.0	20	6	AX148949 Sequence	c 763	10.8	54.0	33	6	1099063 DNA encoding
c 691	10.8	54.0	20	6	AX148950 Sequence	c 764	10.8	54.0	33	6	1099064 DNA encoding
c 692	10.8	54.0	20	6	AX148951 Sequence	c 765	10.8	54.0	33	6	1099065 DNA encoding
c 693	10.8	54.0	20	6	AX148952 Sequence	c 766	10.8	54.0	33	6	1099066 DNA encoding
c 694	10.8	54.0	20	6	AX148953 Sequence	c 767	10.8	54.0	35	6	AX35242 Synthesized
c 695	10.8	54.0	20	6	AX167892 Sequence	c 768	10.8	54.0	35	6	AR012275 Sequence
c 696	10.8	54.0	20	6	AX195363 Sequence	c 769	10.8	54.0	35	6	AR174610 Sequence
c 697	10.8	54.0	20	6	AX202443 Sequence	c 770	10.8	54.0	35	6	AX088380 Sequence
c 698	10.8	54.0	20	6	AX282443 Sequence	c 771	10.8	54.0	35	6	AX382272 Sequence
c 699	10.8	54.0	20	6	AX284270 Sequence	c 772	10.8	54.0	35	6	AX382294 Sequence
c 700	10.8	54.0	20	6	AX294080 Sequence	c 773	10.8	54.0	35	6	114973 Sequence
c 701	10.8	54.0	20	6	AX382402 Sequence	c 774	10.8	54.0	35	6	173693 Sequence
c 702	10.8	54.0	20	6	AX382403 Sequence	c 775	10.8	54.0	36	6	AR077856 Sequence
c 703	10.8	54.0	20	6	AX382404 Sequence	c 776	10.8	54.0	36	6	AX356940 Sequence
c 704	10.8	54.0	20	6	AX418692 Sequence	c 777	10.8	54.0	37	6	AR33091 Sequence
c 705	10.8	54.0	20	6	127105 Sequence	c 778	10.8	54.0	37	6	AR1620 Sequence
c 706	10.8	54.0	20	6	127107 Sequence	c 779	10.8	54.0	38	6	109905350 RefSeq
c 707	10.8	54.0	20	6	127108 Sequence	c 780	10.8	54.0	38	6	AX039962 Sequence
c 708	10.8	54.0	20	6	127109 Sequence	c 781	10.8	54.0	40	6	AX064152 Sequence
c 709	10.8	54.0	20	6	104719 Sequence	c 782	10.8	54.0	42	6	AR008962 Sequence
c 710	10.8	54.0	21	6	AX096482 Sequence	c 783	10.8	54.0	42	6	AR008963 Sequence
c 711	10.8	54.0	21	6	AX382413 Sequence	c 784	10.8	54.0	42	6	AR008965 Sequence
c 712	10.8	54.0	21	6	AX382414 Sequence	c 785	10.8	54.0	42	6	124416 Sequence
c 713	10.8	54.0	21	6	AX384635 Sequence	c 786	10.8	54.0	42	6	124417 Sequence
c 714	10.8	54.0	22	6	AX384636 Sequence	c 787	10.8	54.0	42	6	124419 Sequence
c 715	10.8	54.0	23	6	AR050702 Sequence	c 788	10.8	54.0	42	9	125293 RefSeq
c 716	10.8	54.0	23	6	AR050703 Sequence	c 789	10.8	54.0	43	6	AX301771 Sequence
c 717	10.8	54.0	23	6	AR089632 Sequence	c 790	10.8	54.0	43	6	AX303597 Sequence
c 718	10.8	54.0	23	6	AR093339 Sequence	c 791	10.8	54.0	43	6	AX303598 Sequence
c 719	10.8	54.0	23	6	AR093341 Sequence	c 792	10.8	54.0	45	5	3533012 Sequence
c 720	10.8	54.0	23	6	AR147712 Sequence	c 793	10.8	54.0	46	6	AR035456 Sequence
c 721	10.8	54.0	23	6	AR147714 Sequence	c 794	10.8	54.0	47	6	AR040191 Sequence
c 722	10.8	54.0	23	6	AR159733 Sequence	c 795	10.8	54.0	48	9	1811988 Sequence



c 796	10.8	54.0	49	6	AR181489	AR181489 Sequence	869	10.6	54.0	25	6	AR176643	AR176643 Sequence
c 797	10.8	54.0	50	6	AX165884	AX165884 Sequence	c 870	10.6	54.0	25	6	AX000595	AX000595 Sequence
c 798	10.8	54.0	51	6	AX204104	AX204104 Sequence	c 871	10.6	54.0	25	6	AX000613	AX000613 Sequence
c 799	10.8	54.0	50	6	AX045593	AX045593 Sequence	c 872	10.6	54.0	25	6	EL5817	EL5817 Back primer
c 800	10.8	54.0	50	6	AX028805	AX028805 Sequence	c 873	10.6	54.0	25	6	138938	138938 Sequence 4b
c 801	10.8	54.0	50	6	AX028806	AX028806 Sequence	c 874	10.6	54.0	25	6	143237	143237 Sequence 55
c 802	10.8	54.0	50	6	R0007517	R0007517 High-dens	c 875	10.6	54.0	25	6	143287	143287 Sequence 10
c 803	10.8	54.0	50	6	R0007518	R0007518 High-dens	c 876	10.6	54.0	25	6	187969	187969 Sequence 4b
c 804	10.6	54.0	17	6	AX022895	AX022895 Sequence	c 877	10.6	54.0	25	6	191866	191866 Sequence 1b
c 805	10.6	54.0	17	6	AX022914	AX022914 Sequence	c 878	10.6	54.0	25	6	191867	191867 Sequence 17
c 806	10.6	54.0	17	6	AX022933	AX022933 Sequence	c 879	10.6	54.0	25	6	191868	191868 Sequence 18
c 807	10.6	54.0	17	6	AX030483	AX030483 Sequence	c 880	10.6	54.0	25	6	191869	191869 Sequence 19
c 808	10.6	54.0	17	6	AX030502	AX030502 Sequence	c 881	10.6	54.0	25	6	AX356212	AX356212 Sequence
c 809	10.6	54.0	17	6	AX030521	AX030521 Sequence	c 882	10.6	54.0	27	6	A92697	A92697 Sequence 10
c 810	10.6	54.0	17	6	AX092741	AX092741 Sequence	c 883	10.6	54.0	27	6	AR177847	AR177847 Sequence
c 811	10.6	54.0	17	6	AX284039	AX284039 Sequence	c 884	10.6	54.0	27	6	BD000820	BD000820 Amplifier
c 812	10.6	54.0	17	6	AX382377	AX382377 Sequence	c 885	10.6	54.0	28	6	AX081619	AX081619 Sequence
c 813	10.6	54.0	18	6	AB78951	AB78951 Sequence 39	c 886	10.6	54.0	28	6	AX049336	AX049336 Sequence
c 814	10.6	54.0	18	6	AB98358	AB98358 Sequence 39	c 887	10.6	54.0	28	6	AX352087	AX352087 Sequence
c 815	10.6	54.0	18	6	AX382486	AX382486 Sequence	c 888	10.6	54.0	28	6	AX369147	AX369147 Sequence
c 816	10.6	54.0	19	6	A02524	A02524 Nucleot ide	c 889	10.6	54.0	28	6	AX374800	AX374800 Sequence
c 817	10.6	54.0	19	6	AX382326	AX382326 Sequence	c 890	10.6	54.0	28	6	AR012224	AR012224 Sequence
c 818	10.6	54.0	19	6	AX382396	AX382396 Sequence	c 891	10.6	54.0	29	6	AR068429	AR068429 Sequence
c 819	10.6	54.0	20	6	A62917	A62917 Sequence 15	c 892	10.6	54.0	29	6	AR178391	AR178391 Sequence
c 820	10.6	54.0	20	6	AR2351	AR2351 Sequence 1	c 893	10.6	54.0	29	6	121235	121235 Sequence 10
c 821	10.6	54.0	20	6	AR2353	AR2353 Sequence 3	c 894	10.6	54.0	29	6	125880	125880 Sequence 10
c 822	10.6	54.0	20	6	AR029423	AR029423 Sequence	c 895	10.6	54.0	29	6	126273	126273 Sequence 10
c 823	10.6	54.0	20	6	AR060624	AR060624 Sequence	c 896	10.6	54.0	40	6	A26169	A26169 Synthetic M
c 824	10.6	54.0	20	6	AR076680	AR076680 Sequence	c 897	10.6	54.0	40	6	AR022358	AR022358 Sequence
c 825	10.6	54.0	20	6	AR100322	AR100322 Sequence	c 898	10.6	54.0	40	6	AR048631	AR048631 Sequence
c 826	10.6	54.0	20	6	AR149977	AR149977 Sequence	c 899	10.6	54.0	40	6	AR054767	AR054767 Sequence
c 827	10.6	54.0	20	6	AR161469	AR161469 Sequence	c 900	10.6	54.0	40	6	AR073758	AR073758 Sequence
c 828	10.6	54.0	20	6	AR170718	AR170718 Sequence	c 901	10.6	54.0	40	6	AR085150	AR085150 Sequence
c 829	10.6	54.0	20	6	AR170720	AR170720 Sequence	c 902	10.6	54.0	30	6	AR129814	AR129814 Sequence
c 830	10.6	54.0	20	6	AR182737	AR182737 Sequence	c 903	10.6	54.0	30	6	AX351092	AX351092 Sequence
c 831	10.6	54.0	20	6	AX226335	AX226335 Sequence	c 904	10.6	54.0	30	6	AX351094	AX351094 Sequence
c 832	10.6	54.0	20	6	AX259468	AX259468 Sequence	c 905	10.6	54.0	30	6	134517	134517 Sequence 14
c 833	10.6	54.0	20	6	AX382408	AX382408 Sequence	c 906	10.6	54.0	30	6	141329	141329 Sequence 10
c 834	10.6	54.0	20	6	BD008044	BD008044 Method of	c 907	10.6	54.0	31	6	A21298	A21298 Nucleot ide
c 835	10.6	54.0	20	6	172434	172434 Sequence 18	c 908	10.6	54.0	41	6	A47895	A47895 Sequence 13
c 836	10.6	54.0	20	6	172435	172435 Sequence 19	c 909	10.6	54.0	41	6	A59340	A59340 Sequence 2
c 837	10.6	54.0	20	6	172493	172493 Sequence 77	c 910	10.6	54.0	41	6	AR069331	AR069331 Sequence
c 838	10.6	54.0	20	6	172494	172494 Sequence 78	c 911	10.6	54.0	41	6	AR073286	AR073286 Sequence
c 839	10.6	54.0	20	6	172495	172495 Sequence 79	c 912	10.6	54.0	41	6	AX151288	AX151288 Sequence
c 840	10.6	54.0	20	6	187149	187149 Sequence 45	c 913	10.6	54.0	41	6	AX244076	AX244076 Sequence
c 841	10.6	54.0	21	6	AR138719	AR138719 Sequence	c 914	10.6	54.0	41	6	AX244769	AX244769 Sequence
c 842	10.6	54.0	21	6	AX095497	AX095497 Sequence	c 915	10.6	54.0	41	6	AX248770	AX248770 Sequence
c 843	10.6	54.0	21	6	AX191314	AX191314 Sequence	c 916	10.6	54.0	41	6	AX248826	AX248826 Sequence
c 844	10.6	54.0	21	6	AX382419	AX382419 Sequence	c 917	10.6	54.0	41	6	AX248873	AX248873 Sequence
c 845	10.6	54.0	22	6	AX357269	AX357269 Sequence	c 918	10.6	54.0	41	6	AX249126	AX249126 Sequence
c 846	10.6	54.0	22	6	AX366983	AX366983 Sequence	c 919	10.6	54.0	41	6	AX249647	AX249647 Sequence
c 847	10.6	54.0	22	6	AX382429	AX382429 Sequence	c 920	10.6	54.0	41	6	AX399640	AX399640 Sequence
c 848	10.6	54.0	22	6	104419	104419 Sequence 17	c 921	10.6	54.0	42	6	AL7702	AL7702 Nucleot ide
c 849	10.6	54.0	22	6	104455	104455 Sequence 54	c 922	10.6	54.0	42	6	AR3290	AR3290 Sequence 6
c 850	10.6	54.0	23	6	AR090291	AR090291 Sequence	c 923	10.6	54.0	42	6	AR137039	AR137039 Sequence
c 851	10.6	54.0	23	6	AR091402	AR091402 Sequence	c 924	10.6	54.0	43	6	AR037993	AR037993 Sequence
c 852	10.6	54.0	23	6	AR197326	AR197326 Sequence	c 925	10.6	54.0	43	6	AR054416	AR054416 Sequence
c 853	10.6	54.0	23	6	AX055504	AX055504 Sequence	c 926	10.6	54.0	43	6	AR091723	AR091723 Sequence
c 854	10.6	54.0	23	6	AX110187	AX110187 Sequence	c 927	10.6	54.0	43	6	AR094867	AR094867 Sequence
c 855	10.6	54.0	23	6	AX382438	AX382438 Sequence	c 928	10.6	54.0	43	6	AR131294	AR131294 Sequence
c 856	10.6	54.0	24	6	AR053546	AR053546 Sequence	c 929	10.6	54.0	43	6	AR184273	AR184273 Sequence
c 857	10.6	54.0	24	6	AR059369	AR059369 Sequence	c 930	10.6	54.0	43	6	AX019482	AX019482 Sequence
c 858	10.6	54.0	24	6	AR065873	AR065873 Sequence	c 931	10.6	54.0	43	6	AX02103	AX02103 Sequence
c 859	10.6	54.0	24	6	AR071645	AR071645 Sequence	c 932	10.6	54.0	43	6	AX0403817	AX0403817 Sequence
c 860	10.6	54.0	24	6	AR080355	AR080355 Sequence	c 933	10.6	54.0	43	6	BD011311	BD011311 Human Tel
c 861	10.6	54.0	24	6	AR086104	AR086104 Sequence	c 934	10.6	54.0	43	6	E37060	E37060 Human Telom
c 862	10.6	54.0	24	6	AR248410	AR248410 Sequence	c 935	10.6	54.0	43	6	E58806	E58806 Protein kin
c 863	10.6	54.0	24	6	AX207918	AX207918 Sequence	c 936	10.6	54.0	43	6	123494	123494 Sequence 8
c 864	10.6	54.0	24	6	AX207921	AX207921 Sequence	c 937	10.6	54.0	43	6	133848	133848 Sequence 8
c 865	10.6	54.0	24	6	AX290950	AX290950 Sequence	c 938	10.6	54.0	43	6	136296	136296 Sequence 8
c 866	10.6	54.0	24	6	AX382446	AX382446 Sequence	c 939	10.6	54.0	43	6	A20246	A20246 collactones
c 867	10.6	54.0	24	6	143288	143288 Sequence 10	c 940	10.6	54.0	43	6	AR037988	AR037988 Sequence
c 868	10.6	54.0	25	6	AR086622	AR086622 Sequence	c 941	10.6	54.0	44	6	AR054411	AR054411 Sequence



QY 1 GAGGGGGGATGGGGGA 20  
 DB 2 GAGGGGGGATGGGGGA 1

RESULT 4  
 A87853  
 LOCUS A87853 21 bp DNA linear PAT 22-JAN-2000  
 DEFINITION Sequence 1 from Patent W0983404.  
 ACCESSION A87853  
 VERSION A87853.1 GI:6746423  
 KEYWORDS  
 SOURCE unidentified.  
 ORGANISM unidentified.  
 REFERENCE 1 (bases 1 to 21)  
 AUTHORS Brysch, W.D. and Schillingenstropen, K.  
 TITLE AN ANTISENSE OLIGONUCLEOTIDE PREPARATION METHOD  
 JOURNAL Patent: WO 983404-A 1 06-AUG-1998;  
 BIOCHEMISTIK GES (DE); BRYSCH WOLFGANG (DE)  
 FEATURES  
 SOURCE 1..21  
 Location/Qualifiers  
 /organism "unidentified"  
 /db\_xref "taxon:42644"  
 BASE COUNT 3 a 5 c 12 q 1 t  
 ORIGIN

Query Match 85.0%; Score 17; DB 6; Length 21;  
 Best Local Similarity 100.0%; Pred. No. 2.2e+04;  
 Matches 17; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GAGGGGGGATGGGGGA 17  
 DB 5 GAGGGGGGATGGGGGA 21

RESULT 5  
 A89820  
 LOCUS A89820 21 bp DNA linear PAT 22-JAN-2000  
 DEFINITION Sequence 1 from Patent EP0856579.  
 ACCESSION A89820  
 VERSION A89820.1 GI:6738334  
 KEYWORDS  
 SOURCE unidentified.  
 ORGANISM unidentified.  
 REFERENCE 1 (bases 1 to 21)  
 AUTHORS Brysch, W.D. and Schillingenstropen, K.D.  
 TITLE An antisense oligonucleotide preparation method  
 JOURNAL Patent: EP 0856579-A 1 05-AUG-1998;  
 BIOCHEMISTIK GES (DE)  
 FEATURES  
 SOURCE 1..21  
 Location/Qualifiers  
 /organism "unidentified"  
 /db\_xref "taxon:42644"  
 BASE COUNT 3 a 5 c 12 q 1 t  
 ORIGIN

Query Match 85.0%; Score 17; DB 6; Length 21;  
 Best Local Similarity 100.0%; Pred. No. 2.2e+04;  
 Matches 17; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GAGGGGGGATGGGGGA 17  
 DB 5 GAGGGGGGATGGGGGA 21

RESULT 6  
 A8076428  
 LOCUS A8076428 21 bp DNA linear PAT 30-AUG-2000  
 DEFINITION Sequence 1 from patent US 5958774.  
 ACCESSION A8076428

VERSION A8076428.1 GI:10003174  
 KEYWORDS  
 SOURCE Unknown.  
 ORGANISM Unknown.  
 REFERENCE 1 (bases 1 to 21)  
 AUTHORS Klein, A. and Latzfeld, J.  
 TITLE Method for gene transfer into cells activated from a quiescent state  
 JOURNAL Patent: US 5958774-A 1 28-SEP-1999;  
 FEATURES  
 SOURCE Location/Qualifiers  
 1..21  
 /organism "unknown"  
 BASE COUNT 3 a 5 c 12 q 1 t  
 ORIGIN

Query Match 85.0%; Score 17; DB 6; Length 21;  
 Best Local Similarity 100.0%; Pred. No. 2.2e+04;  
 Matches 17; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GAGGGGGGATGGGGGA 17  
 DB 5 GAGGGGGGATGGGGGA 21

RESULT 7  
 A8147757  
 LOCUS A8147757 21 bp DNA linear PAT 09-AUG-2001  
 DEFINITION Sequence 1 from patent US 6225044.  
 ACCESSION A8147757  
 VERSION A8147757.1 GI:15111847  
 KEYWORDS  
 SOURCE Unknown.  
 ORGANISM Unknown.  
 REFERENCE 1 (bases 1 to 21)  
 AUTHORS Klein, A. and Latzfeld, J.  
 TITLE Method for gene transfer into cells activated from a quiescent state  
 JOURNAL Patent: US 6225044-A 1 01-MAY-2001;  
 FEATURES  
 SOURCE Location/Qualifiers  
 1..21  
 /organism "unknown"  
 BASE COUNT 3 a 5 c 12 q 1 t  
 ORIGIN

Query Match 85.0%; Score 17; DB 6; Length 21;  
 Best Local Similarity 100.0%; Pred. No. 2.2e+04;  
 Matches 17; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GAGGGGGGATGGGGGA 17  
 DB 5 GAGGGGGGATGGGGGA 21

RESULT 8  
 A8012838  
 LOCUS A8012838 32 bp DNA linear PAT 05-DEC-1998  
 DEFINITION Sequence 19 from patent US 5763739.  
 ACCESSION A8012838  
 VERSION A8012838.1 GI:3971156  
 KEYWORDS  
 SOURCE Unknown.  
 ORGANISM Unknown.  
 REFERENCE 1 (bases 1 to 42)  
 AUTHORS Blackberg, L. Gustav., Edlund, M., Hansson, S. Lohmar, J., Bernell, O., Carl, Edward., Lundberg, L. Gustav., Stromqvist, M. Olof., and Tornell, J. Birger, Fredrik.  
 TITLE Transgenic non-human mammals producing BSSL variants  
 JOURNAL Patent: US 5763739-A 19 09-JUN-1998;  
 FEATURES  
 SOURCE Location/Qualifiers  
 1..42

```

BASE COUNT      2 a      12 c      15 g      4 t
ORIGIN

Query Match
Best Local Similarity 76.0%; Score 15.2; DB 6; Length 42;
Matches 17; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

QY 1 GAGGGGAGATGGGGAGGC 20
DB 8 GGGGGGAGATGGGGAGGC 27

RESULT 9
LOCUS      ARO50409      42 bp      DNA      Linear      PAT 29-SEP-1999
DEFINITION Sequence 19 from patent US 5827684.
ACCESSION  ARO50409
VERSION    ARO50409.1  GI:5974044
KEYWORDS   unknown.
SOURCE     unknown.
ORGANISM   unclassified.
REFERENCE  1 (bases 1 to 42)
AUTHORS   Blackbq,L.Gustav., Edlund,M., Hansson,S.Lennart.,
          Bernell,O.,Carl,Edward., Lundberg,L.Gustav., Stromqvist,M.Olof., and
          Tornell,J.Birger,Fredrik.
TITLE     Nucleic acids encoding BSSL variants
JOURNAL   Patent: US 5827684-A 14-09-JUN-1998;
FEATURES   Location/Qualifiers
            source
            1..42
            /organism "unknown"
            4 a      12 c      15 g      4 t

BASE COUNT      2 a      12 c      15 g      4 t
ORIGIN

Query Match
Best Local Similarity 76.0%; Score 15.2; DB 6; Length 42;
Matches 17; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

QY 1 GAGGGGAGATGGGGAGGC 20
DB 8 GGGGGGAGATGGGGAGGC 27

RESULT 10
LOCUS      ARO12844      42 bp      DNA      Linear      PAT 05-DEC-1998
DEFINITION Sequence 14 from patent US 5764749.
ACCESSION  ARO12844
VERSION    ARO12844.1  GI:4971151
KEYWORDS   unknown.
SOURCE     unknown.
ORGANISM   unclassified.
REFERENCE  1 (bases 1 to 42)
AUTHORS   Blackbq,L.Gustav., Edlund,M., Hansson,S.Lennart.,
          Bernell,O.,Carl,Edward., Lundberg,L.Gustav., Stromqvist,M.Olof., and
          Tornell,J.Birger,Fredrik.
TITLE     Transgenic non human mammals producing BSSL variants
JOURNAL   Patent: US 5764749-A 14-09-JUN-1998;
FEATURES   Location/Qualifiers
            source
            1..42
            /organism "unknown"
            4 a      12 c      15 g      4 t

BASE COUNT      2 a      12 c      15 g      4 t
ORIGIN

Query Match
Best Local Similarity 76.0%; Score 15.2; DB 6; Length 42;
Matches 17; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

QY 1 GAGGGGAGATGGGGAGGC 20
DB 8 GGGGGGAGATGGGGAGGC 27

RESULT 11
LOCUS      ARO50404/c     42 bp      DNA      Linear      PAT 29-SEP-1999
DEFINITION Sequence 14 from patent US 5827684.
ACCESSION  ARO50404
VERSION    ARO50404.1  GI:5974029
KEYWORDS   unknown.
SOURCE     unknown.
ORGANISM   unclassified.
REFERENCE  1 (bases 1 to 42)
AUTHORS   Blackbq,L.Gustav., Edlund,M., Hansson,S.Lennart.,
          Bernell,O.,Carl,Edward., Lundberg,L.Gustav., Stromqvist,M.Olof., and
          Tornell,J.Birger,Fredrik.
TITLE     Nucleic acids encoding BSSL variants
JOURNAL   Patent: US 5827684-A 14-09-JUN-1998;
FEATURES   Location/Qualifiers
            source
            1..42
            /organism "unknown"
            4 a      12 c      15 g      4 t

BASE COUNT      2 a      12 c      15 g      4 t
ORIGIN

Query Match
Best Local Similarity 76.0%; Score 15.2; DB 6; Length 42;
Matches 17; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

QY 1 GAGGGGAGATGGGGAGGC 20
DB 29 GGGGGGAGATGGGGAGGC 10

RESULT 12
LOCUS      ARO12844/c     43 bp      DNA      Linear      PAT 05-DEC-1998
DEFINITION Sequence 15 from patent US 5764749.
ACCESSION  ARO12844
VERSION    ARO12844.1  GI:4971152
KEYWORDS   unknown.
SOURCE     unknown.
ORGANISM   unclassified.
REFERENCE  1 (bases 1 to 43)
AUTHORS   Blackbq,L.Gustav., Edlund,M., Hansson,S.Lennart.,
          Bernell,O.,Carl,Edward., Lundberg,L.Gustav., Stromqvist,M.Olof., and
          Tornell,J.Birger,Fredrik.
TITLE     Transgenic non human mammals producing BSSL variants
JOURNAL   Patent: US 5764749-A 14-09-JUN-1998;
FEATURES   Location/Qualifiers
            source
            1..43
            /organism "unknown"
            4 a      12 c      15 g      4 t

BASE COUNT      2 a      12 c      15 g      4 t
ORIGIN

Query Match
Best Local Similarity 76.0%; Score 15.2; DB 6; Length 43;
Matches 17; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

QY 1 GAGGGGAGATGGGGAGGC 20
DB 20 GGGGGGAGATGGGGAGGC 1

RESULT 13
LOCUS      ARO50405/c     43 bp      DNA      Linear      PAT 29-SEP-1999
DEFINITION Sequence 15 from patent US 5827684.
ACCESSION  ARO50405
VERSION    ARO50405.1  GI:5974040
KEYWORDS   unknown.
SOURCE     unknown.
ORGANISM   unclassified.

```

```

Unclassified.
REFERENCE 1 (bases 1 to 43)
AUTHORS Blackberg,L.Gustav., Edlund,M., Hansson,S.Lennart.,
Hornell,O.,Carl,Eduard., Lundberg,L.Gustav., Stromqvist,M.Olof., and
Tornell,J.Birger,Fredrik.
TITLE Nucleic acids encoding BSL variants
JOURNAL Patent: US 5827683-A 15-27-OCT-1998;
FEATURES
    source location/Qualifiers
    1..43 /organism "unknown"
BASE COUNT 8 a 19 c 12 q 4 t
ORIGIN
Query Match 76.0%; Score 15.2; DB 6; Length 43;
Best Local Similarity 85.0%; Pred. No. 9.4e+04;
Matches 17; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 1 GAGGGAGGATGGGAGG 20
DB 20 GAGGGAGGAGGAGG 1

RESULT 14
AX424471/c AX424471 45 bp DNA Linear PAT 07-JAN-2002
DEFINITION Sequence 19 from Patent WO0192408.
ACCESSION AX424471
VERSION AX424471.1 GI:18094240
KEYWORDS synthetic construct.
SOURCE synthetic construct.
ORGANISM artificial sequences.
REFERENCE 1
AUTHORS Paszty,C.J. and Gao,Y.
TITLE Cystine-knot polypeptides: cloaked-2 molecules and uses thereof
JOURNAL Patent: WO 0192408-A 19-06-DE3-2001;
Amgen, Inc. (US)
FEATURES
    source location/Qualifiers
    1..45 /organism "synthetic construct"
    /db_xref "taxon:32644"
    /note "Artificial PCR primer"
BASE COUNT 9 a 19 c 8 q
ORIGIN

Query Match 76.0%; Score 15.2; DB 6; Length 45;
Best Local Similarity 85.0%; Pred. No. 9.2e+04;
Matches 17; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 1 GAGGGAGGATGGGAGG 20
DB 41 GAGGGAGGATGGGAGG 12

RESULT 15
AM7859 AM7859 18 bp DNA Linear PAT 22-JAN-2000
DEFINITION Sequence 7 from Patent WO9839504.
ACCESSION AM7859
VERSION AM7859.1 GI:6746429
KEYWORDS
SOURCE unidentified.
ORGANISM unidentified.
REFERENCE 1 (bases 1 to 18)
AUTHORS Brysch,W.D. and Schlingensiefen,K.D.
TITLE AN ANTISENSE OLIGONUCLEOTIDE PREPARATION METHOD
JOURNAL Patent: WO 9839504-A 7-06-AUG-1998;
Blonquist GES (DE); Brysch Wolfgang (DE)
FEATURES
    source location/Qualifiers
    1..18 /organism "unidentified"
    /db_xref "taxon:32644"

Unclassified.
REFERENCE 1 (bases 1 to 18)
AUTHORS Brysch,W.D. and Schlingensiefen,K.D.
TITLE AN ANTISENSE OLIGONUCLEOTIDE PREPARATION METHOD
JOURNAL Patent: EP 0856579-A 7-05-AUG-1998;
Blonquist GES (DE)
FEATURES
    source location/Qualifiers
    1..18 /organism "unidentified"
    /db_xref "taxon:32644"
BASE COUNT 2 a 4 c 11 q 1 t
ORIGIN

Query Match 75.0%; Score 15; DB 6; Length 18;
Best Local Similarity 100.0%; Pred. No. 1.5e+05;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GAGGGAGGATGGGAGG 15
DB 4 GAGGGAGGATGGGAGG 18

RESULT 16
AM9826 AM9826 18 bp DNA Linear PAT 22-JAN-2000
DEFINITION Sequence 7 from Patent EP0856579.
ACCESSION AM9826
VERSION AM9826.1 GI:6748340
KEYWORDS
SOURCE unidentified.
ORGANISM unidentified.
REFERENCE 1 (bases 1 to 18)
AUTHORS Brysch,W.D. and Schlingensiefen,K.D.
TITLE An antisense oligonucleotide preparation method
JOURNAL Patent: EP 0856579-A 7-05-AUG-1998;
Blonquist GES (DE)
FEATURES
    source location/Qualifiers
    1..18 /organism "unidentified"
    /db_xref "taxon:32644"
BASE COUNT 2 a 4 c 11 q 1 t
ORIGIN

Query Match 75.0%; Score 15; DB 6; Length 18;
Best Local Similarity 100.0%; Pred. No. 1.5e+05;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GAGGGAGGATGGGAGG 15
DB 4 GAGGGAGGATGGGAGG 18

RESULT 17
AM00169/c AM00169 26 bp DNA Linear PAT 04-DEC-1998
DEFINITION Sequence 3 from patent US 5746333.
ACCESSION AM00169
VERSION AM00169.1 GI:3962700
KEYWORDS
SOURCE unknown.
ORGANISM unidentified.
REFERENCE 1 (bases 1 to 26)
AUTHORS Livak,K.J. and MeBrige,L.J.
TITLE Passive internal references for the detection of nucleic acid
amplification products
JOURNAL Patent: US 5746333-A 3-07-APR-1998;
FEATURES
    source location/Qualifiers
    1..26 /organism "unknown"
BASE COUNT 3 a 14 c 4 q 6 t
ORIGIN

Query Match 74.0%; Score 14.8; DB 6; Length 26;
Best Local Similarity 88.9%; Pred. No. 1.6e+05;
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 2 AGGAGGATGGGAGG 19
DB 22 AGGAGGATGGGAGG 5

```

RESULT 18  
 LOCUS AR074609 26 bp DNA Linear PAT 28 AUG 2000  
 DEFINITION Sequence 6 from patient US 5955268.  
 ACCESSION AR074609  
 VERSION AR074609.1 GI:10001462  
 KEYWORDS  
 SOURCE Unknown.  
 ORGANISM Unknown.  
 REFERENCE 1 (bases 1 to 26)  
 AUTHORS Granados,E.N., Bonina,S.R., Carrino,J.J., and Solomon,N.A.  
 TITLE Method and reagent for detecting multiple nucleic acid sequences in a test sample  
 JOURNAL  
 FEATURES  
 SOURCE Location/Qualifiers  
 1..26  
 /organism "unknown"  
 BASE COUNT 3 a 13 c 4 g 6 t  
 ORIGIN  
 Query Match 74.0%; Score 14.8; DB 6; Length 26;  
 Best Local Similarity 88.9%; Pred. No. 1,6e+05;  
 Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;  
 QY 2 AGGAGGATGGGGAGG 19  
 DB 22 AGGATGGATGGGGAGG 5  
 ||| |||||||  
 RESULT 19  
 LOCUS AR082406 26 bp DNA Linear PAT 31 AUG 2000  
 DEFINITION Sequence 3 from patient US 5972716.  
 ACCESSION AR082406  
 VERSION AR082406.1 GI:10009142  
 KEYWORDS  
 SOURCE Unknown.  
 ORGANISM Unknown.  
 REFERENCE 1 (bases 1 to 26)  
 AUTHORS Ramsa,R.P., Wondethert,L.M., and Marmaro,J.M.  
 TITLE Fluorescence monitoring device with textured optical tube and method for reducing background fluorescence  
 JOURNAL  
 FEATURES  
 SOURCE Location/Qualifiers  
 1..26  
 /organism "unknown"  
 BASE COUNT 3 a 13 c 4 g 6 t  
 ORIGIN  
 Query Match 74.0%; Score 14.8; DB 6; Length 26;  
 Best Local Similarity 88.9%; Pred. No. 1,6e+05;  
 Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;  
 QY 2 AGGAGGATGGGGAGG 19  
 DB 22 AGGATGGATGGGGAGG 5  
 ||| |||||||  
 RESULT 20  
 LOCUS AR142099 26 bp DNA Linear PAT 08 AUG 2001  
 DEFINITION Sequence 20 from patient US 6174670.  
 ACCESSION AR142099  
 VERSION AR142099.1 GI:15102499  
 KEYWORDS  
 SOURCE Unknown.  
 ORGANISM Unknown.  
 REFERENCE 1 (bases 1 to 26)  
 AUTHORS Wittwer,C.T., Ririe,K.M., and Rasmussen,R.P.  
 TITLE Monitoring amplification of DNA during PCR

JOURNAL Patient: US 6174670 A 20 16 JAN 2001;  
 FEATURES Location/Qualifiers  
 1..26  
 /organism "unknown"  
 BASE COUNT 3 a 13 c 4 g 6 t  
 ORIGIN  
 Query Match 74.0%; Score 14.8; DB 6; Length 26;  
 Best Local Similarity 88.9%; Pred. No. 1,6e+05;  
 Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;  
 QY 2 AGGAGGATGGGGAGG 19  
 DB 22 AGGATGGATGGGGAGG 5  
 ||| |||||||  
 RESULT 21  
 LOCUS AR151424 26 bp DNA Linear PAT 08 AUG 2001  
 DEFINITION Sequence 20 from patient US 6242079.  
 ACCESSION AR151424  
 VERSION AR151424.1 GI:15117474  
 KEYWORDS  
 SOURCE Unknown.  
 ORGANISM Unknown.  
 REFERENCE 1 (bases 1 to 26)  
 AUTHORS Wittwer,C.T., Ririe,K.M., and Rasmussen,R.P.  
 TITLE PCR method for nucleic acid quantitation utilizing second or third order rate constants  
 JOURNAL Patient: US 6242079 A 20 15 MAY 2001;  
 FEATURES Location/Qualifiers  
 1..26  
 /organism "unknown"  
 BASE COUNT 3 a 13 c 4 g 6 t  
 ORIGIN  
 Query Match 74.0%; Score 14.8; DB 6; Length 26;  
 Best Local Similarity 88.9%; Pred. No. 1,6e+05;  
 Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;  
 QY 2 AGGAGGATGGGGAGG 19  
 DB 22 AGGATGGATGGGGAGG 5  
 ||| |||||||  
 RESULT 22  
 LOCUS AR157417 26 bp DNA Linear PAT 17 OCT 2001  
 DEFINITION Sequence 20 from patient US 6245514.  
 ACCESSION AR157417  
 VERSION AR157417.1 GI:16218455  
 KEYWORDS  
 SOURCE Unknown.  
 ORGANISM Unknown.  
 REFERENCE 1 (bases 1 to 26)  
 AUTHORS Wittwer,C.T.  
 TITLE Fluorescent donor-acceptor pair with low spectral overlap  
 JOURNAL Patient: US 6245514 A 20 12 JUN 2001;  
 FEATURES Location/Qualifiers  
 1..26  
 /organism "unknown"  
 BASE COUNT 3 a 13 c 4 g 6 t  
 ORIGIN  
 Query Match 74.0%; Score 14.8; DB 6; Length 26;  
 Best Local Similarity 88.9%; Pred. No. 1,6e+05;  
 Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;  
 QY 2 AGGAGGATGGGGAGG 19  
 DB 22 AGGATGGATGGGGAGG 5  
 ||| |||||||

AUTHORS Livak, K.J., Flood, S.J.A., Mamoro, J., and Mullah, K. Bashari.  
 TITLE Hybridization assay using self-quenching fluorescence probe  
 JOURNAL Patent: US 625476-A 9 10-JUL-2001;  
 FEATURES Location/Qualifiers  
 SOURCE 1..26  
 BASE COUNT 3 a 13 c 4 q 6 t  
 ORIGIN /organism="unknown"  
 QUERY Match 74.0%; Score 14.8; DB 6; Length 26;  
 Best Local Similarity 88.9%; Pred. No. 1.6e+05;  
 Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;  
 QY 2 AGGAGGATAGGGGAGG 19  
 DB 22 AGGAGGATAGGGGAGG 5

Search completed: March 18, 2003, 11:26:03  
 Job time : 492.154 secs

RESULT 24  
 AR161626/ AR161626 26 bp DNA Linear PAT 17-OCT-2001  
 DEFINITION Sequence 4 from patent US 625476.  
 ACCESSION AR161626  
 VERSION AR161626.1 GI:16227601  
 KEYWORDS  
 SOURCE unknown.  
 ORGANISM unknown.  
 REFERENCE  
 1 (bases 1 to 26)  
 AUTHORS Vinayak, R.S., Lee, L.G., Mullah, K.B. and Rosenblum, B.H.  
 TITLE Methods and compositions for synthesis of labelled oligonucleotides  
 and analogs on solid-supports  
 JOURNAL Patent: US 625476-A 4 03-JUL-2001;  
 FEATURES Location/Qualifiers  
 SOURCE 1..26  
 BASE COUNT 3 a 13 c 4 q 6 t  
 ORIGIN /organism="unknown"

QUERY Match 74.0%; Score 14.8; DB 6; Length 26;  
 Best Local Similarity 88.9%; Pred. No. 1.6e+05;  
 Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;  
 QY 2 AGGAGGATAGGGGAGG 19  
 DB 22 AGGAGGATAGGGGAGG 5

RESULT 24  
 AR161627/ AR161627 26 bp DNA Linear PAT 17-OCT-2001  
 DEFINITION Sequence 5 from patent US 625476.  
 ACCESSION AR161627  
 VERSION AR161627.1 GI:16227603  
 KEYWORDS  
 SOURCE unknown.  
 ORGANISM unknown.  
 REFERENCE  
 1 (bases 1 to 26)  
 AUTHORS Vinayak, R.S., Lee, L.G., Mullah, K.B. and Rosenblum, B.H.  
 TITLE Methods and compositions for synthesis of labelled oligonucleotides  
 and analogs on solid-supports  
 JOURNAL Patent: US 625476-A 5 03-JUL-2001;  
 FEATURES Location/Qualifiers  
 SOURCE 1..26  
 BASE COUNT 3 a 13 c 4 q 6 t  
 ORIGIN /organism="unknown"

QUERY Match 74.0%; Score 14.8; DB 6; Length 26;  
 Best Local Similarity 88.9%; Pred. No. 1.6e+05;  
 Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;  
 QY 2 AGGAGGATAGGGGAGG 19  
 DB 22 AGGAGGATAGGGGAGG 5

RESULT 25  
 AR162179/ AR162179 26 bp DNA Linear PAT 17-OCT-2001  
 DEFINITION Sequence 9 from patent US 625476.  
 ACCESSION AR162179  
 VERSION AR162179.1 GI:16229271  
 KEYWORDS  
 SOURCE unknown.  
 ORGANISM unknown.  
 REFERENCE  
 1 (bases 1 to 26)





Result	Query	Score	Match	Length	DB	ID	Description
No.							

83	14.4	72.0	20	19	AAV47205	Ant isense of ligan	156	14.4	72.0	22	19	AAV47109	Ant isense of ligan
84	14.4	72.0	20	19	AAV47183	Ant isense of ligan	157	14.4	72.0	22	20	AAV53535	Human adenosine A1
85	14.4	72.0	20	19	AAV47160	Ant isense of ligan	158	14.4	72.0	22	20	AAV53535	Human adenosine A1
86	14.4	72.0	20	20	AAV53537	Human adenosine A1	159	14.4	72.0	22	20	AAV53538	Human adenosine A1
87	14.4	72.0	20	20	AAV53623	Human adenosine A1	160	14.4	72.0	22	20	AAV53621	Human adenosine A1
88	14.4	72.0	20	20	AAV53560	Human adenosine A1	161	14.4	72.0	22	20	AAV53486	Human adenosine A1
89	14.4	72.0	20	20	AAV53582	Human adenosine A1	162	14.4	72.0	22	20	AAV53580	Human adenosine A1
90	14.4	72.0	20	20	AAV53603	Human adenosine A1	163	14.4	72.0	22	20	AAV53601	Human adenosine A1
91	14.4	72.0	20	21	AAV19102	Human adenosine A1	164	14.4	72.0	22	21	AAV19051	Human adenosine A1
92	14.4	72.0	20	21	AAV19125	Human adenosine A1	165	14.4	72.0	22	21	AAV19076	Human adenosine A1
93	14.4	72.0	20	21	AAV19147	Human adenosine A1	166	14.4	72.0	22	21	AAV19100	Human adenosine A1
94	14.4	72.0	20	21	AAV19168	Human adenosine A1	167	14.4	72.0	22	21	AAV19123	Human adenosine A1
95	14.4	72.0	20	21	AAV19188	Human adenosine A1	168	14.4	72.0	22	21	AAV19145	Human adenosine A1
96	14.4	72.0	20	21	AAV32980	Low adenosine anti	169	14.4	72.0	22	21	AAV19166	Human adenosine A1
97	14.4	72.0	20	21	AAV33003	Low adenosine anti	170	14.4	72.0	22	21	AAV19186	Human adenosine A1
98	14.4	72.0	20	21	AAV33025	Low adenosine anti	171	14.4	72.0	22	21	AAV32929	Low adenosine anti
99	14.4	72.0	20	21	AAV33046	Low adenosine anti	172	14.4	72.0	22	21	AAV32954	Low adenosine anti
100	14.4	72.0	20	21	AAV33066	Low adenosine anti	173	14.4	72.0	22	21	AAV32978	Low adenosine anti
101	14.4	72.0	20	21	AAV33089	Human adenosine A1	174	14.4	72.0	22	21	AAV33001	Low adenosine anti
102	14.4	72.0	20	21	AAV33062	Human adenosine A1	175	14.4	72.0	22	21	AAV33023	Low adenosine anti
103	14.4	72.0	20	21	AAV33084	Human adenosine A1	176	14.4	72.0	22	21	AAV33044	Low adenosine anti
104	14.4	72.0	20	21	AAV33005	Human adenosine A1	177	14.4	72.0	22	21	AAV33064	Low adenosine anti
105	14.4	72.0	20	21	AAV33025	Human adenosine A1	178	14.4	72.0	22	21	AAV33088	Human adenosine A1
106	14.4	72.0	21	18	AAV60741	Adenosine A1 recep	179	14.4	72.0	22	21	AAV33113	Human adenosine A1
107	14.4	72.0	21	18	AAV47232	Adenosine A1 recep	180	14.4	72.0	22	21	AAV33137	Human adenosine A1
108	14.4	72.0	21	19	AAV47245	Ant isense of ligan	181	14.4	72.0	22	21	AAV33060	Human adenosine A1
109	14.4	72.0	21	19	AAV47245	Ant isense of ligan	182	14.4	72.0	22	21	AAV33082	Human adenosine A1
110	14.4	72.0	21	19	AAV47204	Ant isense of ligan	183	14.4	72.0	22	21	AAV33040	Human adenosine A1
111	14.4	72.0	21	19	AAV47182	Ant isense of ligan	184	14.4	72.0	22	21	AAV33064	Human adenosine A1
112	14.4	72.0	21	19	AAV47159	Ant isense of ligan	185	14.4	72.0	22	21	AAV47082	Human adenosine A1
113	14.4	72.0	21	19	AAV47145	Ant isense of ligan	186	14.4	72.0	22	21	AAV47243	Ant isense of ligan
114	14.4	72.0	21	19	AAV52869	Adenosine A1 recep	187	14.4	72.0	22	21	AAV47223	Ant isense of ligan
115	14.4	72.0	21	20	AAV53536	Human adenosine A1	188	14.4	72.0	22	21	AAV47202	Ant isense of ligan
116	14.4	72.0	21	20	AAV53512	Human adenosine A1	189	14.4	72.0	22	21	AAV47180	Ant isense of ligan
117	14.4	72.0	21	20	AAV53622	Human adenosine A1	190	14.4	72.0	22	21	AAV47157	Ant isense of ligan
118	14.4	72.0	21	20	AAV53559	Human adenosine A1	191	14.4	72.0	22	21	AAV47133	Ant isense of ligan
119	14.4	72.0	21	20	AAV53581	Human adenosine A1	192	14.4	72.0	22	21	AAV47108	Ant isense of ligan
120	14.4	72.0	21	20	AAV53602	Human adenosine A1	193	14.4	72.0	22	20	AAV53534	Human adenosine A1
121	14.4	72.0	21	21	AAV18434	Human adenosine A1	194	14.4	72.0	22	20	AAV53459	Human adenosine A1
122	14.4	72.0	21	21	AAV19077	Human adenosine A1	195	14.4	72.0	22	20	AAV53557	Human adenosine A1
123	14.4	72.0	21	21	AAV19101	Human adenosine A1	196	14.4	72.0	22	20	AAV53510	Human adenosine A1
124	14.4	72.0	21	21	AAV19124	Human adenosine A1	197	14.4	72.0	22	20	AAV53620	Human adenosine A1
125	14.4	72.0	21	21	AAV19146	Human adenosine A1	198	14.4	72.0	22	20	AAV53485	Human adenosine A1
126	14.4	72.0	21	21	AAV19167	Human adenosine A1	199	14.4	72.0	22	20	AAV53579	Human adenosine A1
127	14.4	72.0	21	21	AAV19187	Human adenosine A1	200	14.4	72.0	22	20	AAV53600	Human adenosine A1
128	14.4	72.0	21	21	AAV20845	Human adenosine A1	201	14.4	72.0	22	20	AAV19024	Human adenosine A1
129	14.4	72.0	21	21	AAV53526	Adenosine A1 recep	202	14.4	72.0	22	21	AAV19050	Human adenosine A1
130	14.4	72.0	21	21	AAV42413	Adenosine A1 recep	203	14.4	72.0	22	21	AAV19075	Human adenosine A1
131	14.4	72.0	21	21	AAV32955	Low adenosine anti	204	14.4	72.0	22	21	AAV19099	Human adenosine A1
132	14.4	72.0	21	21	AAV32979	Low adenosine anti	205	14.4	72.0	22	21	AAV19122	Human adenosine A1
133	14.4	72.0	21	21	AAV33002	Low adenosine anti	206	14.4	72.0	22	21	AAV19144	Human adenosine A1
134	14.4	72.0	21	21	AAV33024	Low adenosine anti	207	14.4	72.0	22	21	AAV19165	Human adenosine A1
135	14.4	72.0	21	21	AAV33045	Low adenosine anti	208	14.4	72.0	22	21	AAV19185	Human adenosine A1
136	14.4	72.0	21	21	AAV33065	Low adenosine anti	209	14.4	72.0	22	21	AAV32902	Low adenosine anti
137	14.4	72.0	21	21	AAV32717	Human adenosine re	210	14.4	72.0	22	21	AAV32928	Low adenosine anti
138	14.4	72.0	21	21	AAV32717	Human adenosine re	211	14.4	72.0	22	21	AAV32953	Low adenosine anti
139	14.4	72.0	21	21	AAV33114	Human adenosine A1	212	14.4	72.0	22	21	AAV32977	Low adenosine anti
140	14.4	72.0	21	21	AAV33038	Human adenosine A1	213	14.4	72.0	22	21	AAV33000	Low adenosine anti
141	14.4	72.0	21	21	AAV33061	Human adenosine A1	214	14.4	72.0	22	21	AAV33022	Low adenosine anti
142	14.4	72.0	21	21	AAV33083	Human adenosine A1	215	14.4	72.0	22	21	AAV33043	Low adenosine anti
143	14.4	72.0	21	21	AAV33040	Human adenosine A1	216	14.4	72.0	22	21	AAV33063	Low adenosine anti
144	14.4	72.0	21	21	AAV33024	Human adenosine A1	217	14.4	72.0	22	21	AAV33087	Human adenosine A1
145	14.4	72.0	21	21	AAV33117	Adenosine A1 recep	218	14.4	72.0	22	21	AAV3312	Human adenosine A1
146	14.4	72.0	21	21	AAV33070	Human adenosine A1	219	14.4	72.0	22	21	AAV33146	Human adenosine A1
147	14.4	72.0	21	22	AAV60954	Ant i-adenosine, br	220	14.4	72.0	22	21	AAV33166	Human adenosine A1
148	14.4	72.0	21	24	AHL01646	Rept ide nucleic ac	221	14.4	72.0	22	21	AAV33199	Human adenosine A1
149	14.4	72.0	21	24	AAV37502	Receptor targeted	222	14.4	72.0	22	21	AAV33181	Human adenosine A1
150	14.4	72.0	22	19	AAV47244	Ant isense of ligan	223	14.4	72.0	22	21	AAV33102	Human adenosine A1
151	14.4	72.0	22	19	AAV47224	Ant isense of ligan	224	14.4	72.0	22	21	AAV47081	Ant isense of ligan
152	14.4	72.0	22	19	AAV47203	Ant isense of ligan	225	14.4	72.0	22	19	AAV47081	Ant isense of ligan
153	14.4	72.0	22	19	AAV47181	Ant isense of ligan	226	14.4	72.0	22	19	AAV47242	Ant isense of ligan
154	14.4	72.0	22	19	AAV47158	Ant isense of ligan	227	14.4	72.0	22	19	AAV47222	Ant isense of ligan
155	14.4	72.0	22	19	AAV47144	Ant isense of ligan	228	14.4	72.0	22	19	AAV47201	Ant isense of ligan

229	14.4	72.0	24	19	AAV47179	Ant isense oligonucleotide	402	14.4	72.0	25	21	AAA32900	Low adenosine anti
230	14.4	72.0	24	19	AAV47156	Ant isense oligonucleotide	403	14.4	72.0	25	21	AAA32926	Low adenosine anti
231	14.4	72.0	24	19	AAV47132	Ant isense oligonucleotide	404	14.4	72.0	25	21	AAA32951	Low adenosine anti
232	14.4	72.0	24	19	AAV47107	Ant isense oligonucleotide	405	14.4	72.0	25	21	AAA32975	Low adenosine anti
233	14.4	72.0	24	19	AAV47054	Ant isense oligonucleotide	406	14.4	72.0	25	21	AAA32998	Low adenosine anti
234	14.4	72.0	24	20	AAV35333	Human adenosine Al	407	14.4	72.0	25	21	AAA33020	Low adenosine anti
235	14.4	72.0	24	20	AAV353431	Human adenosine Al	408	14.4	72.0	25	21	AAA33041	Low adenosine anti
236	14.4	72.0	24	20	AAV353458	Human adenosine Al	409	14.4	72.0	25	21	AAA33061	Low adenosine anti
237	14.4	72.0	24	20	AAV353556	Human adenosine Al	410	14.4	72.0	25	21	AAA33204	Human adenosine Al
238	14.4	72.0	24	20	AAV353509	Human adenosine Al	411	14.4	72.0	25	21	AAA33232	Human adenosine Al
239	14.4	72.0	24	20	AAV353619	Human adenosine Al	412	14.4	72.0	25	21	AAA33259	Human adenosine Al
240	14.4	72.0	24	20	AAV353484	Human adenosine Al	413	14.4	72.0	25	21	AAA33285	Human adenosine Al
241	14.4	72.0	24	20	AAV353578	Human adenosine Al	414	14.4	72.0	25	21	AAA33310	Human adenosine Al
242	14.4	72.0	24	20	AAV353599	Human adenosine Al	415	14.4	72.0	25	21	AAA33334	Human adenosine Al
243	14.4	72.0	24	21	AAV18996	Human adenosine Al	416	14.4	72.0	25	21	AAA33357	Human adenosine Al
244	14.4	72.0	24	21	AAV19023	Human adenosine Al	417	14.4	72.0	25	21	AAA33379	Human adenosine Al
245	14.4	72.0	24	21	AAV19049	Human adenosine Al	418	14.4	72.0	25	21	AAA33400	Human adenosine Al
246	14.4	72.0	24	21	AAV19074	Human adenosine Al	419	14.4	72.0	25	21	AAA33420	Human adenosine Al
247	14.4	72.0	24	21	AAV19098	Human adenosine Al	420	14.4	72.0	26	19	AAV47079	Human adenosine Al
248	14.4	72.0	24	21	AAV19121	Human adenosine Al	421	14.4	72.0	26	19	AAV47240	Ant isense oligonucleotide
249	14.4	72.0	24	21	AAV19143	Human adenosine Al	422	14.4	72.0	26	19	AAV47220	Ant isense oligonucleotide
250	14.4	72.0	24	21	AAV19164	Human adenosine Al	423	14.4	72.0	26	19	AAV47199	Ant isense oligonucleotide
251	14.4	72.0	24	21	AAV19184	Human adenosine Al	424	14.4	72.0	26	19	AAV47177	Ant isense oligonucleotide
252	14.4	72.0	24	21	AAA32874	Low adenosine anti	425	14.4	72.0	26	19	AAV47154	Ant isense oligonucleotide
253	14.4	72.0	24	21	AAA32901	Low adenosine anti	426	14.4	72.0	26	19	AAV47130	Ant isense oligonucleotide
254	14.4	72.0	24	21	AAA32927	Low adenosine anti	427	14.4	72.0	26	19	AAV47105	Ant isense oligonucleotide
255	14.4	72.0	24	21	AAA32952	Low adenosine anti	428	14.4	72.0	26	19	AAV46695	Ant isense oligonucleotide
256	14.4	72.0	24	21	AAA32976	Low adenosine anti	429	14.4	72.0	26	19	AAV47052	Ant isense oligonucleotide
257	14.4	72.0	24	21	AAA32999	Low adenosine anti	430	14.4	72.0	26	19	AAV47024	Ant isense oligonucleotide
258	14.4	72.0	24	21	AAA33021	Low adenosine anti	431	14.4	72.0	26	19	AAV47024	Human adenosine Al
259	14.4	72.0	24	21	AAA33042	Low adenosine anti	432	14.4	72.0	26	20	AAV353401	Human adenosine Al
260	14.4	72.0	24	21	AAA33062	Low adenosine anti	433	14.4	72.0	26	20	AAV353372	Human adenosine Al
261	14.4	72.0	24	21	AAA33233	Human adenosine Al	434	14.4	72.0	26	20	AAV353531	Human adenosine Al
262	14.4	72.0	24	21	AAA33260	Human adenosine Al	435	14.4	72.0	26	20	AAV353456	Human adenosine Al
263	14.4	72.0	24	21	AAA33286	Human adenosine Al	436	14.4	72.0	26	20	AAV353554	Human adenosine Al
264	14.4	72.0	24	21	AAA33311	Human adenosine Al	437	14.4	72.0	26	20	AAV353507	Human adenosine Al
265	14.4	72.0	24	21	AAA33335	Human adenosine Al	438	14.4	72.0	26	20	AAV353617	Human adenosine Al
266	14.4	72.0	24	21	AAA33358	Human adenosine Al	439	14.4	72.0	26	20	AAV353482	Human adenosine Al
267	14.4	72.0	24	21	AAA33380	Human adenosine Al	440	14.4	72.0	26	20	AAV353576	Human adenosine Al
268	14.4	72.0	24	21	AAA33401	Human adenosine Al	441	14.4	72.0	26	20	AAV353547	Human adenosine Al
269	14.4	72.0	24	21	AAA33421	Human adenosine Al	442	14.4	72.0	26	20	AAV353429	Human adenosine Al
270	14.4	72.0	25	19	AAV47080	Ant isense oligonucleotide	443	14.4	72.0	26	21	AAV18937	Human adenosine Al
271	14.4	72.0	25	19	AAV47241	Ant isense oligonucleotide	444	14.4	72.0	26	21	AAV18966	Human adenosine Al
272	14.4	72.0	25	19	AAV47221	Ant isense oligonucleotide	445	14.4	72.0	26	21	AAV18944	Human adenosine Al
273	14.4	72.0	25	19	AAV47200	Ant isense oligonucleotide	446	14.4	72.0	26	21	AAV19021	Human adenosine Al
274	14.4	72.0	25	19	AAV47178	Ant isense oligonucleotide	447	14.4	72.0	26	21	AAV19047	Human adenosine Al
275	14.4	72.0	25	19	AAV47155	Ant isense oligonucleotide	448	14.4	72.0	26	21	AAV19072	Human adenosine Al
276	14.4	72.0	25	19	AAV47131	Ant isense oligonucleotide	449	14.4	72.0	26	21	AAV19096	Human adenosine Al
277	14.4	72.0	25	19	AAV47106	Ant isense oligonucleotide	450	14.4	72.0	26	21	AAV19119	Human adenosine Al
278	14.4	72.0	25	19	AAV47053	Ant isense oligonucleotide	451	14.4	72.0	26	21	AAV19141	Human adenosine Al
279	14.4	72.0	25	19	AAV47025	Ant isense oligonucleotide	452	14.4	72.0	26	21	AAV19162	Human adenosine Al
280	14.4	72.0	25	20	AAV353402	Human adenosine Al	453	14.4	72.0	26	21	AAV19182	Human adenosine Al
281	14.4	72.0	25	20	AAV353532	Human adenosine Al	454	14.4	72.0	26	21	AAV32815	Low adenosine anti
282	14.4	72.0	25	20	AAV353457	Human adenosine Al	455	14.4	72.0	26	21	AAV32844	Low adenosine anti
283	14.4	72.0	25	20	AAV353555	Human adenosine Al	456	14.4	72.0	26	21	AAV32872	Low adenosine anti
284	14.4	72.0	25	20	AAV353508	Human adenosine Al	457	14.4	72.0	26	21	AAV32899	Low adenosine anti
285	14.4	72.0	25	20	AAV353618	Human adenosine Al	458	14.4	72.0	26	21	AAV32925	Low adenosine anti
286	14.4	72.0	25	20	AAV353483	Human adenosine Al	459	14.4	72.0	26	21	AAV32950	Low adenosine anti
287	14.4	72.0	25	20	AAV353577	Human adenosine Al	460	14.4	72.0	26	21	AAV32974	Low adenosine anti
288	14.4	72.0	25	20	AAV353598	Human adenosine Al	461	14.4	72.0	26	21	AAV32997	Low adenosine anti
289	14.4	72.0	25	20	AAV353430	Human adenosine Al	462	14.4	72.0	26	21	AAV33019	Low adenosine anti
290	14.4	72.0	25	21	AAV18967	Human adenosine Al	463	14.4	72.0	26	21	AAV33040	Low adenosine anti
291	14.4	72.0	25	21	AAV18995	Human adenosine Al	464	14.4	72.0	26	21	AAV33060	Low adenosine anti
292	14.4	72.0	25	21	AAV19022	Human adenosine Al	465	14.4	72.0	26	21	AAV33174	Human adenosine Al
293	14.4	72.0	25	21	AAV19048	Human adenosine Al	466	14.4	72.0	26	21	AAV33203	Human adenosine Al
294	14.4	72.0	25	21	AAV19073	Human adenosine Al	467	14.4	72.0	26	21	AAV33251	Human adenosine Al
295	14.4	72.0	25	21	AAV19097	Human adenosine Al	468	14.4	72.0	26	21	AAV33258	Human adenosine Al
296	14.4	72.0	25	21	AAV19120	Human adenosine Al	469	14.4	72.0	26	21	AAV33284	Human adenosine Al
297	14.4	72.0	25	21	AAV19142	Human adenosine Al	470	14.4	72.0	26	21	AAV33309	Human adenosine Al
298	14.4	72.0	25	21	AAV19163	Human adenosine Al	471	14.4	72.0	26	21	AAV33333	Human adenosine Al
299	14.4	72.0	25	21	AAV19183	Human adenosine Al	472	14.4	72.0	26	21	AAV33356	Human adenosine Al
300	14.4	72.0	25	21	AAA32845	Low adenosine anti	473	14.4	72.0	26	21	AAV33378	Human adenosine Al
301	14.4	72.0	25	21	AAA32873	Low adenosine anti	474	14.4	72.0	26	21	AAV33399	Human adenosine Al
							475	14.4	72.0	26	21	AAV33419	Human adenosine Al

375	14.4	72.0	27	19	AAV47078	Ant isense of tpmc	448	14.4	72.0	28	20	AAV53399	Human adenosine tme
376	14.4	72.0	27	19	AAV47239	Ant isense of tpmc	449	14.4	72.0	28	20	AAV53470	Human adenosine tme
377	14.4	72.0	27	19	AAV47219	Ant isense of tpmc	450	14.4	72.0	28	20	AAV53440	Human adenosine tme
378	14.4	72.0	27	19	AAV47198	Ant isense of tpmc	451	14.4	72.0	28	20	AAV53409	Human adenosine tme
379	14.4	72.0	27	19	AAV47176	Ant isense of tpmc	452	14.4	72.0	28	20	AAV53529	Human adenosine tme
380	14.4	72.0	27	19	AAV47153	Ant isense of tpmc	453	14.4	72.0	28	20	AAV53454	Human adenosine tme
381	14.4	72.0	27	19	AAV47129	Ant isense of tpmc	454	14.4	72.0	28	20	AAV53552	Human adenosine tme
382	14.4	72.0	27	19	AAV47104	Ant isense of tpmc	455	14.4	72.0	28	20	AAV53505	Human adenosine tme
383	14.4	72.0	27	19	AAV46964	Ant isense of tpmc	456	14.4	72.0	28	20	AAV53615	Human adenosine tme
384	14.4	72.0	27	19	AAV47023	Ant isense of tpmc	457	14.4	72.0	28	20	AAV53574	Human adenosine tme
385	14.4	72.0	27	19	AAV46994	Ant isense of tpmc	458	14.4	72.0	28	20	AAV53480	Human adenosine tme
386	14.4	72.0	27	19	AAV47051	Ant isense of tpmc	459	14.4	72.0	28	20	AAV53595	Human adenosine tme
387	14.4	72.0	27	20	AAV53400	Human adenosine tme	460	14.4	72.0	28	20	AAV53427	Human adenosine tme
388	14.4	72.0	27	20	AAV53371	Human adenosine tme	461	14.4	72.0	28	21	AAV18874	Human adenosine tme
389	14.4	72.0	27	20	AAV53341	Human adenosine tme	462	14.4	72.0	28	21	AAV18905	Human adenosine tme
390	14.4	72.0	27	20	AAV53530	Human adenosine tme	463	14.4	72.0	28	21	AAV18935	Human adenosine tme
391	14.4	72.0	27	20	AAV53455	Human adenosine tme	464	14.4	72.0	28	21	AAV18964	Human adenosine tme
392	14.4	72.0	27	20	AAV53553	Human adenosine tme	465	14.4	72.0	28	21	AAV18992	Human adenosine tme
393	14.4	72.0	27	20	AAV53506	Human adenosine tme	466	14.4	72.0	28	21	AAV19019	Human adenosine tme
394	14.4	72.0	27	20	AAV53616	Human adenosine tme	467	14.4	72.0	28	21	AAV19045	Human adenosine tme
395	14.4	72.0	27	20	AAV53481	Human adenosine tme	468	14.4	72.0	28	21	AAV19070	Human adenosine tme
396	14.4	72.0	27	20	AAV53575	Human adenosine tme	469	14.4	72.0	28	21	AAV19094	Human adenosine tme
397	14.4	72.0	27	20	AAV53596	Human adenosine tme	470	14.4	72.0	28	21	AAV19117	Human adenosine tme
398	14.4	72.0	27	20	AAV53428	Human adenosine tme	471	14.4	72.0	28	21	AAV19139	Human adenosine tme
399	14.4	72.0	27	21	AAV18906	Human adenosine tme	472	14.4	72.0	28	21	AAV19160	Human adenosine tme
400	14.4	72.0	27	21	AAV18936	Human adenosine tme	473	14.4	72.0	28	21	AAV19180	Human adenosine tme
401	14.4	72.0	27	21	AAV18965	Human adenosine tme	474	14.4	72.0	28	21	AAV32752	Low adenosine tme
402	14.4	72.0	27	21	AAV18993	Human adenosine tme	475	14.4	72.0	28	21	AAV32783	Low adenosine tme
403	14.4	72.0	27	21	AAV19020	Human adenosine tme	476	14.4	72.0	28	21	AAV32813	Low adenosine tme
404	14.4	72.0	27	21	AAV19046	Human adenosine tme	477	14.4	72.0	28	21	AAV32842	Low adenosine tme
405	14.4	72.0	27	21	AAV19071	Human adenosine tme	478	14.4	72.0	28	21	AAV32870	Low adenosine tme
406	14.4	72.0	27	21	AAV19095	Human adenosine tme	479	14.4	72.0	28	21	AAV32897	Low adenosine tme
407	14.4	72.0	27	21	AAV19118	Human adenosine tme	480	14.4	72.0	28	21	AAV32923	Low adenosine tme
408	14.4	72.0	27	21	AAV19140	Human adenosine tme	481	14.4	72.0	28	21	AAV32948	Low adenosine tme
409	14.4	72.0	27	21	AAV19161	Human adenosine tme	482	14.4	72.0	28	21	AAV32972	Low adenosine tme
410	14.4	72.0	27	21	AAV19181	Human adenosine tme	483	14.4	72.0	28	21	AAV32995	Low adenosine tme
411	14.4	72.0	27	21	AAV42784	Low adenosine tme	484	14.4	72.0	28	21	AAV33017	Low adenosine tme
412	14.4	72.0	27	21	AAV42814	Low adenosine tme	485	14.4	72.0	28	21	AAV33038	Low adenosine tme
413	14.4	72.0	27	21	AAV42843	Low adenosine tme	486	14.4	72.0	28	21	AAV33058	Low adenosine tme
414	14.4	72.0	27	21	AAV42871	Low adenosine tme	487	14.4	72.0	28	21	AAV03111	Human adenosine tme
415	14.4	72.0	27	21	AAV42898	Low adenosine tme	488	14.4	72.0	28	21	AAV03142	Human adenosine tme
416	14.4	72.0	27	21	AAV42924	Low adenosine tme	489	14.4	72.0	28	21	AAV03172	Human adenosine tme
417	14.4	72.0	27	21	AAV42949	Low adenosine tme	490	14.4	72.0	28	21	AAV03201	Human adenosine tme
418	14.4	72.0	27	21	AAV42973	Low adenosine tme	491	14.4	72.0	28	21	AAV03229	Human adenosine tme
419	14.4	72.0	27	21	AAV42996	Low adenosine tme	492	14.4	72.0	28	21	AAV03256	Human adenosine tme
420	14.4	72.0	27	21	AAV43018	Low adenosine tme	493	14.4	72.0	28	21	AAV03282	Human adenosine tme
421	14.4	72.0	27	21	AAV43039	Low adenosine tme	494	14.4	72.0	28	21	AAV03307	Human adenosine tme
422	14.4	72.0	27	21	AAV43059	Low adenosine tme	495	14.4	72.0	28	21	AAV03331	Human adenosine tme
423	14.4	72.0	27	21	AAV03143	Human adenosine tme	496	14.4	72.0	28	21	AAV03354	Human adenosine tme
424	14.4	72.0	27	21	AAV03173	Human adenosine tme	497	14.4	72.0	28	21	AAV03376	Human adenosine tme
425	14.4	72.0	27	21	AAV03202	Human adenosine tme	498	14.4	72.0	28	21	AAV03397	Human adenosine tme
426	14.4	72.0	27	21	AAV03230	Human adenosine tme	499	14.4	72.0	28	21	AAV03417	Human adenosine tme
427	14.4	72.0	27	21	AAV03257	Human adenosine tme	500	14.4	72.0	29	19	AAV47076	Ant isense of tpmc
428	14.4	72.0	27	21	AAV03283	Human adenosine tme	501	14.4	72.0	29	19	AAV47237	Ant isense of tpmc
429	14.4	72.0	27	21	AAV03308	Human adenosine tme	502	14.4	72.0	29	19	AAV47217	Ant isense of tpmc
430	14.4	72.0	27	21	AAV03332	Human adenosine tme	503	14.4	72.0	29	19	AAV47196	Ant isense of tpmc
431	14.4	72.0	27	21	AAV03355	Human adenosine tme	504	14.4	72.0	29	19	AAV47174	Ant isense of tpmc
432	14.4	72.0	27	21	AAV03377	Human adenosine tme	505	14.4	72.0	29	19	AAV47151	Ant isense of tpmc
433	14.4	72.0	27	21	AAV03398	Human adenosine tme	506	14.4	72.0	29	19	AAV47127	Ant isense of tpmc
434	14.4	72.0	27	21	AAV03418	Human adenosine tme	507	14.4	72.0	29	19	AAV47102	Ant isense of tpmc
435	14.4	72.0	28	19	AAV47077	Ant isense of tpmc	508	14.4	72.0	29	19	AAV46931	Ant isense of tpmc
436	14.4	72.0	28	19	AAV47238	Ant isense of tpmc	509	14.4	72.0	29	19	AAV46899	Ant isense of tpmc
437	14.4	72.0	28	19	AAV47218	Ant isense of tpmc	510	14.4	72.0	29	19	AAV46523	Ant isense of tpmc
438	14.4	72.0	28	19	AAV47197	Ant isense of tpmc	511	14.4	72.0	29	19	AAV47021	Ant isense of tpmc
439	14.4	72.0	28	19	AAV47175	Ant isense of tpmc	512	14.4	72.0	29	19	AAV47049	Ant isense of tpmc
440	14.4	72.0	28	19	AAV47152	Ant isense of tpmc	513	14.4	72.0	29	19	AAV46962	Ant isense of tpmc
441	14.4	72.0	28	19	AAV47128	Ant isense of tpmc	514	14.4	72.0	29	19	AAV46932	Ant isense of tpmc
442	14.4	72.0	28	19	AAV47103	Ant isense of tpmc	515	14.4	72.0	29	20	AAV53398	Human adenosine tme
443	14.4	72.0	28	19	AAV46932	Ant isense of tpmc	516	14.4	72.0	29	20	AAV53369	Human adenosine tme
444	14.4	72.0	28	19	AAV47022	Ant isense of tpmc	517	14.4	72.0	29	20	AAV53339	Human adenosine tme
445	14.4	72.0	28	19	AAV47050	Ant isense of tpmc	518	14.4	72.0	29	20	AAV53308	Human adenosine tme
446	14.4	72.0	28	19	AAV46963	Ant isense of tpmc	519	14.4	72.0	29	20	AAV53276	Human adenosine tme
447	14.4	72.0	28	19	AAV46993	Ant isense of tpmc	520	14.4	72.0	29	20	AAV52900	Human adenosine tme





814	14.4	72.0	43	19	AAV47045	Antisense oligonuc
815	14.4	72.0	43	19	AAV46988	Antisense oligonuc
816	14.4	72.0	43	20	AAV53494	Human adenosine A1
817	14.4	72.0	34	20	AAV53365	Human adenosine A1
818	14.4	72.0	43	20	AAV53304	Human adenosine A1
819	14.4	72.0	33	20	AAV53272	Human adenosine A1
820	14.4	72.0	33	20	AAV53239	Human adenosine A1
821	14.4	72.0	33	20	AAV53205	Human adenosine A1
822	14.4	72.0	33	20	AAV53170	Human adenosine A1
823	14.4	72.0	33	20	AAV53134	Human adenosine A1
824	14.4	72.0	33	20	AAV52896	Human adenosine A1
825	14.4	72.0	33	20	AAV53449	Human adenosine A1
826	14.4	72.0	33	20	AAV53524	Human adenosine A1
827	14.4	72.0	33	20	AAV53500	Human adenosine A1
828	14.4	72.0	33	20	AAV53475	Human adenosine A1
829	14.4	72.0	43	20	AAV53422	Human adenosine A1
830	14.4	72.0	33	21	AAV18461	Human adenosine A1
831	14.4	72.0	33	21	AAV18699	Human adenosine A1
832	14.4	72.0	33	21	AAV18735	Human adenosine A1
833	14.4	72.0	33	21	AAV18770	Human adenosine A1
834	14.4	72.0	43	21	AAV18804	Human adenosine A1
835	14.4	72.0	43	21	AAV18837	Human adenosine A1
836	14.4	72.0	43	21	AAV18869	Human adenosine A1
837	14.4	72.0	43	21	AAV18900	Human adenosine A1
838	14.4	72.0	43	21	AAV18930	Human adenosine A1
839	14.4	72.0	43	21	AAV18959	Human adenosine A1
840	14.4	72.0	43	21	AAV18987	Human adenosine A1
841	14.4	72.0	43	21	AAV19014	Human adenosine A1
842	14.4	72.0	43	21	AAV19040	Human adenosine A1
843	14.4	72.0	33	21	AAV19065	Human adenosine A1
844	14.4	72.0	33	21	AAV19089	Human adenosine A1
845	14.4	72.0	33	21	AAV42440	Low adenosine anti
846	14.4	72.0	33	21	AAV32578	Low adenosine anti
847	14.4	72.0	33	21	AAV32614	Low adenosine anti
848	14.4	72.0	33	21	AAV32649	Low adenosine anti
849	14.4	72.0	33	21	AAV32682	Low adenosine anti
850	14.4	72.0	33	21	AAV32747	Low adenosine anti
851	14.4	72.0	33	21	AAV32778	Low adenosine anti
852	14.4	72.0	33	21	AAV32808	Low adenosine anti
853	14.4	72.0	33	21	AAV32837	Low adenosine anti
854	14.4	72.0	33	21	AAV32865	Low adenosine anti
855	14.4	72.0	33	21	AAV32892	Low adenosine anti
856	14.4	72.0	33	21	AAV32918	Low adenosine anti
857	14.4	72.0	33	21	AAV32943	Low adenosine anti
858	14.4	72.0	33	21	AAV32967	Low adenosine anti
859	14.4	72.0	43	21	AAV02936	Human adenosine A1
860	14.4	72.0	33	21	AAV02972	Human adenosine A1
861	14.4	72.0	33	21	AAV03007	Human adenosine A1
862	14.4	72.0	43	21	AAV03041	Human adenosine A1
863	14.4	72.0	33	21	AAV03074	Human adenosine A1
864	14.4	72.0	33	21	AAV03106	Human adenosine A1
865	14.4	72.0	33	21	AAV03137	Human adenosine A1
866	14.4	72.0	33	21	AAV03167	Human adenosine A1
867	14.4	72.0	33	21	AAV03196	Human adenosine A1
868	14.4	72.0	33	21	AAV03224	Human adenosine A1
869	14.4	72.0	33	21	AAV03251	Human adenosine A1
870	14.4	72.0	33	21	AAV03277	Human adenosine A1
871	14.4	72.0	33	21	AAV03302	Human adenosine A1
872	14.4	72.0	33	21	AAV03326	Human adenosine A1
873	14.4	72.0	43	21	AAV03444	Human adenosine A1
874	14.4	72.0	34	19	AAV47122	Antisense oligonuc
875	14.4	72.0	43	19	AAV47097	Antisense oligonuc
876	14.4	72.0	43	19	AAV46926	Antisense oligonuc
877	14.4	72.0	43	19	AAV46894	Antisense oligonuc
878	14.4	72.0	43	19	AAV46861	Antisense oligonuc
879	14.4	72.0	43	19	AAV46827	Antisense oligonuc
880	14.4	72.0	43	19	AAV46792	Antisense oligonuc
881	14.4	72.0	34	19	AAV46756	Antisense oligonuc
882	14.4	72.0	34	19	AAV46719	Antisense oligonuc
883	14.4	72.0	43	19	AAV47071	Antisense oligonuc
884	14.4	72.0	34	19	AAV46518	Antisense oligonuc
885	14.4	72.0	34	19	AAV47016	Antisense oligonuc
886	14.4	72.0	43	19	AAV46957	Antisense oligonuc
887	14.4	72.0	43	19	AAV46988	Antisense oligonuc
888	14.4	72.0	43	19	AAV46987	Antisense oligonuc
889	14.4	72.0	43	19	AAV46983	Antisense oligonuc
890	14.4	72.0	43	19	AAV46860	Antisense oligonuc
891	14.4	72.0	43	19	AAV46826	Antisense oligonuc
892	14.4	72.0	43	19	AAV46791	Antisense oligonuc
893	14.4	72.0	43	19	AAV46755	Antisense oligonuc
894	14.4	72.0	43	19	AAV46718	Antisense oligonuc
895	14.4	72.0	43	19	AAV46680	Antisense oligonuc

959 13.4 72.0 35 19 AAV47070  
 Ant isense oligonucleotide  
 960 13.4 72.0 35 19 AAV46517  
 Ant isense oligonucleotide  
 961 13.4 72.0 35 19 AAV47015  
 Ant isense oligonucleotide  
 962 13.4 72.0 35 19 AAV46956  
 Ant isense oligonucleotide  
 963 13.4 72.0 35 19 AAV47043  
 Ant isense oligonucleotide  
 964 13.4 72.0 35 19 AAV46986  
 Ant isense oligonucleotide  
 965 13.4 72.0 35 20 AAX53092  
 Human adenosine A1  
 966 13.4 72.0 35 20 AAX53063  
 Human adenosine A1  
 967 13.4 72.0 35 20 AAX53333  
 Human adenosine A1  
 968 13.4 72.0 35 20 AAX53092  
 Human adenosine A1  
 969 13.4 72.0 35 20 AAX53270  
 Human adenosine A1  
 970 13.4 72.0 35 20 AAX53247  
 Human adenosine A1  
 971 13.4 72.0 35 20 AAX53203  
 Human adenosine A1  
 972 13.4 72.0 35 20 AAX53168  
 Human adenosine A1  
 973 13.4 72.0 35 20 AAX53132  
 Human adenosine A1  
 974 13.4 72.0 35 20 AAX53095  
 Human adenosine A1  
 975 13.4 72.0 35 20 AAX53057  
 Human adenosine A1  
 976 13.4 72.0 35 20 AAX52894  
 Human adenosine A1  
 977 13.4 72.0 35 20 AAX53447  
 Human adenosine A1  
 978 13.4 72.0 35 20 AAX53473  
 Human adenosine A1  
 979 13.4 72.0 35 20 AAX53420  
 Human adenosine A1  
 980 13.4 72.0 35 21 AAF18459  
 Human adenosine A1  
 981 13.4 72.0 35 21 AAF18622  
 Human adenosine A1  
 982 13.4 72.0 35 21 AAF18660  
 Human adenosine A1  
 983 13.4 72.0 35 21 AAF18697  
 Human adenosine A1  
 984 13.4 72.0 35 21 AAF18733  
 Human adenosine A1  
 985 13.4 72.0 35 21 AAF18768  
 Human adenosine A1  
 986 13.4 72.0 35 21 AAF18802  
 Human adenosine A1  
 987 13.4 72.0 35 21 AAF18845  
 Human adenosine A1  
 988 13.4 72.0 35 21 AAF18867  
 Human adenosine A1  
 989 13.4 72.0 35 21 AAF18898  
 Human adenosine A1  
 990 13.4 72.0 35 21 AAF18928  
 Human adenosine A1  
 991 13.4 72.0 35 21 AAF18957  
 Human adenosine A1  
 992 13.4 72.0 35 21 AAF18985  
 Human adenosine A1  
 993 13.4 72.0 35 21 AAF19012  
 Human adenosine A1  
 994 13.4 72.0 35 21 AAF19048  
 Human adenosine A1  
 995 13.4 72.0 35 21 AAX42338  
 Low adenosine anti  
 996 13.4 72.0 35 21 AAX42501  
 Low adenosine anti  
 997 13.4 72.0 35 21 AAX42539  
 Low adenosine anti  
 998 13.4 72.0 35 21 AAX42576  
 Low adenosine anti  
 999 13.4 72.0 35 21 AAX42612  
 Low adenosine anti  
 1000 13.4 72.0 35 21 AAX42647  
 Low adenosine anti

## ALIGNMENTS

RESULT 1  
 10 AAD55439 standard; tRNA; 20 bp.  
 XX  
 AC AAD55449;  
 XX  
 DT 01 JUL 2002 (first entry)  
 XX  
 DE TGF beta1 antisense oligonucleotides.  
 XX  
 KW Transforming growth factor; TGF; cancer; thymoma; germ cell tumour;  
 KW multiple myeloma; melanoma; haematopoietic disease; thrombocytopoiesis;  
 KW gene therapy; cytostatic; haemostatic; SS.  
 XX  
 OS Unidentified.  
 XX  
 UN W0200204479-A1.  
 XX  
 PD 17 JAN 2002.  
 XX  
 PF 06 JUL 2001; 2001W0 US21420.  
 XX  
 PR 06 JUL 2000; 2000US 216256P.  
 XX  
 PA (AV18 ) AV18-01HAKMA IN\*.  
 XX

PI Bartelmez SR, Iverson PL;  
 BR WPL; 2002 145761/26.  
 XX  
 PI New human stem cell composition, useful for treating various cancers,  
 PI e.g. ovarian cancer, melanoma, testicular cancer, lung cancer or brain  
 PI cancer, as well as for other non malignant hematopoietic diseases, e.g.,  
 PI thrombocytopoiesis  
 PS Claim 5; Page 47; Gppc English.  
 XX  
 CC The present invention relates to transforming growth factor (TGF) beta  
 CC blocking agent treated human stem cell compositions which are capable of  
 CC rapid in vivo reconstitution of the haematopoietic system of a subject.  
 CC The composition comprises a cell population enriched for human stem  
 CC cells, the stem cells treated ex vivo with an oligonucleotide antisense to  
 CC TGF beta, where the viability and differentiation state of the stem  
 CC cells is preserved in culture longer than stem cells not subjected  
 CC to TGF-beta antisense treatment. The human stem cell composition is  
 CC useful for promoting the rapid engraftment of long term repopulation  
 CC haematopoietic stem cells (LTR-HSC) following in vivo administration  
 CC and facilitate the rapid proliferation of LTR-HSC in vitro. The HSC  
 CC containing cell population is useful for treating various cancers,  
 CC including ovarian cancer, thymomas, germ cell tumours, multiple myeloma,  
 CC melanoma, testicular cancer, lung cancer and brain cancer as well as for  
 CC other non-malignant haematopoietic diseases, e.g. thrombocytopoiesis.  
 CC Sequences of the invention are also used in gene therapy. The present  
 CC sequence is TGF beta1 antisense oligonucleotide.  
 XX  
 SQ Sequence 20 BP; 5 A; 3 C; 13 G; 1 T; 0 other;  
 Query Match 100.0%; Score 20; DB 24; Length 20;  
 Best Local Similarity 100.0%; Pred. No. 42;  
 Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
 GY 1 GAGGAGGAGATGGGAGAG\* 20  
 |||||  
 DB 1 GAGGAGGAGATGGGAGAG\* 20  
 RESULT 2  
 AA105419/5  
 10 AA105419 standard; mRNA; 24 bp.  
 XX  
 AC AA105419;  
 XX  
 DT 14 JUN 1996 (first entry)  
 XX  
 DE Human TGF beta1 mRNA fragment.  
 XX  
 KW Fibroblast growth factor; FGF; antisense; AS; FGF inhibitor; therapy;  
 KW Wistar Kyoto rat aortic smooth muscle cell; KASMC; liposome; stroke;  
 KW haemofiltration neuraminidase; UN; Sendai virus; SV; hypertension; LPL;  
 KW liposome forming lipid; restenosis; hyperplasia; atherosclerosis;  
 KW and stenosis; myocardial hypertrophy; aneurysm; TGF beta1;  
 KW transforming growth factor beta1; SS.  
 XX  
 OS Synthetic.  
 XX  
 UN W0950360-A1.  
 XX  
 PD 16 NOV 1995.  
 XX  
 PF 28 APR 1995; 95W0 US05420.  
 XX  
 PR 10 MAY 1994; 94US 024147Z.  
 XX  
 PA (USAPV) USAP V 1.  
 XX  
 PI Ozan VJ, Yasutani K;  
 BR WPL; 1995 40696/11.  
 XX



PT Prodn. of liposome(s) for fusion with cells - used esp. for delivery  
 PT of antisense nucleic acids to inhibit cellular proliferation.  
 XX  
 PS Example 5; Page 52; 98pp; English.  
 XX  
 CC This sequence represents a fragment of human transforming growth  
 CC factor-beta1 (TGF-beta1) mRNA. The antisense sequence represented by  
 CC AAT05420 was created from this sequence. AAT05420, AAT05422, AAT05424,  
 CC AAT05426, AAT05428-9, AAT05431, AAT05433, AAT05435 and AAT05414 all  
 CC represent antisense oligonucleotides that are used in the liposomes of  
 CC the invention. The liposomes of the invention are produced by combining  
 CC two liposomes to produce a liposome for fusion with cells. The first  
 CC liposome is produced by agitating purified haemagglutinin-neuraminidase  
 CC (HN), and fusion proteins of Sendai virus (SV) with liposome forming  
 CC lipids (LPLs) in an aqueous medium. The second liposome is produced by  
 CC agitating an agent of interest with LPLs (where at least 25% of the  
 CC lipids are cationic), in an aqueous solution. The agents are preferably  
 CC antisense oligonucleotides, such as AAT05420. The antisense sequences  
 CC inhibit the expression of a protein associated with cellular  
 CC proliferation. They can be used for treating diseases such as  
 CC hypertension, restenosis, hyperplasia, atherosclerosis, angiogenesis,  
 CC myocardial hypertrophy, strokes and aneurysms.  
 XX  
 SQ Sequence 24 BP; 1 A; 14 C; 6 G; 3 U; 0 other;

Query Match 100.0%; Score 20; DB 16; Length 24;  
 Best Local Similarity 100.0%; Pred. No. 31;  
 Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GAGGCGGCATGCGGAGGC 20  
 |||||  
 DB 20 GAGGCGGCATGCGGAGGC 1

## RESULT 4

AA075041/  
 ID AA075041 standard; mRNA; 24 BP.

AC AA075041;

DT 15-AUG-1995 (first entry)

XX Human TGF beta(1) mRNA.

XX Human transforming growth factor beta 1; hTGFb1; antisense therapy;  
 KW restenosis prevention; cardiovascular angioplasty; ss.  
 XX  
 XX Synthetic.

CS

PN W9426888-A.

XX 24 NOV-1994.

XX 18 MAY-1994; 94WO-US05566.

XX 19 MAY-1994; 94US-0063980.

XX 20-AUG-1994; 94US-0110294.

PA (STUD ) UNIV IELAND STANFORD JUNIOR.

PI Izan VI;

DR WPI: 1995-006785/01.

XX Inhibiting cellular activity associated with vascular lesions -  
 PT with antisense oligomers against cyclin or cyclin dependent  
 PT kinase genes, partic. for preventing restenosis after  
 PT cardiovascular angioplasty.

PS Disclosure; Page 8; 77pp; English.

XX AA075041 is a human TGF-beta(1) (hTGFb1) mRNA, it was used in  
 CC development of an antisense oligomer which inhibits the expression of

CC TGFb1. When administered to a site of lesion formation the  
 CC antisense oligomer helps prevent restenosis, after cardiovascular  
 CC angioplasty.

SQ Sequence 24 BP; 1 A; 14 C; 6 G; 3 U; 0 other;

Query Match 100.0%; Score 20; DB 16; Length 24;  
 Best Local Similarity 100.0%; Pred. No. 31;  
 Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GAGGCGGCATGCGGAGGC 20  
 |||||  
 DB 20 GAGGCGGCATGCGGAGGC 1

## RESULT 4

AA081261/  
 ID AA081261 standard; mRNA; 18 BP.

AC AA081261;

XX 07-SEP-1995 (first entry)

XX Ribozyme target sequence in TGF-beta mRNA (bases 833-850).

XX Target site; ribozyme; hammerhead; hairpin; hepatitis delta virus;  
 KW group 1 intron; RNaseP RNA motif; transforming growth factor-beta;  
 KW TGF-beta; fibrosis; connective; tissue disease; TGF-alpha; inhibin;  
 KW epidermal growth factor; EGF; activin; amphiregulin; insulin;  
 KW bone morphogenic protein; fibroblast growth factor; relaxin; ss.

XX Homo sapiens.

XX W9429452-A.

XX 22-DEC-1994.

XX 02-JUN-1994; 94WO-US06331.

XX 09-JUN-1994; 93US-0074343.

XX (RIBO-) RIBOZYME PHARM INC.

XX Draper KG;

XX WPI: 1995-051612/07.

XX Enzymatic RNA molecule with, e.g. a hammerhead or hairpin motif  
 PT - cleaves mRNA associated with fibrous or connective tissue  
 PT disease, and is useful for treatment or prophylaxis of such  
 PT diseases

PS Claim 3; Page 4; 64pp; English.

XX The sequences (AA081238-304) represent the target sites where a ribozyme  
 CC (hammerhead, hairpin, hepatitis delta virus, group 1 intron or RNaseP  
 CC RNA motif) cleaves the mRNA of the transforming growth factor-beta  
 CC (TGF-beta) gene. This sequence corresponds to bases 833-850 of the  
 CC TGF-beta mRNA. The ribozymes can also target the mRNAs of genes  
 CC associated with the development or maintenance of fibrous or connective  
 CC tissue disease in order to prevent or treat these diseases. Such genes  
 CC include TGF-alpha or beta, epidermal growth factor, inhibins, activins,  
 CC amphiregulin, bone morphogenic proteins, fibroblast growth factors and  
 CC b, insulin growth factor 1 or 2, insulin or relaxin.

XX Sequence 18 BP; 1 A; 12 C; 3 G; 2 U; 0 other;

Query Match 90.0%; Score 18; DB 16; Length 18;  
 Best Local Similarity 100.0%; Pred. No. 2e+02;  
 Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 3 GAGGCGGCATGCGGAGGC 20  
 |||||

```

Db      18 GGGGGGAAAGGAGAGG* 1
RESULT 5
AAV48412
Db      AAV48412 standard; DNA: 21 BP.
XX
AC      AAV48412:
XX
Db      15 oct 1998 (first entry)
XX
Db      Transforming growth factor beta 1 and isense oligonucleotide A1.
XX
KW      Transforming growth factor beta 1; TGF-beta-1;
KW      and isense oligonucleotide; modulator; gene expression; ss.
XX
OS      Synthetic.
XX
OS      Homo sapiens.
XX
PN      EP8565/9 A1.
XX
PD      05 AUG 1998.
XX
PF      31-JAN 1997; 9/EP 0101541.
XX
PR      31-JAN 1997; 9/EP 0101541.
XX
PA      (BIOG ) BIOGEN-IDEKES BIOMOLEKULARE DIAMONSTR.
XX
PI      Inyech W. Schlundsteinen K.
XX
PR      WPI: 1998 400910/46.
XX
PT      Preparation of antisense oligonucleotide(s) which lack four runs of
PT      consecutive adenosine or inosine - and have specific ratio of
PT      residues able to form two or three hydrogen bonds, have greater
PT      activity and reduced toxicity, used therapeutically or to modulate
PT      growth of cells in culture
XX
XX      Example 1: Fig 6a; 286pp; English.
XX
AC      AAV48412 84 represent antisense oligonucleotides directed against
AC      transforming growth factor beta 1 (TGF-beta 1). The oligonucleotides
AC      exemplify the invention. The specification describes oligonucleotides
AC      that contain 8-50 nucleotides, which contain at most 8 nucleotides that
AC      can each form three hydrogen bonds to cytosine; do not contain four
AC      consecutive nucleotides able to form three H-bonds each to four
AC      consecutive cytosines; do not contain two sequences of three consecutive
AC      nucleotides each able to form three H-bonds to three consecutive
AC      cytosines, and the ratio between residues able to form two H-bonds each
AC      (2R) or three such bonds (3R) is given by 2R/3R = 0.33-0.72. The
AC      oligonucleotides are used to modulate expression of genes, particularly
AC      the genes for p53, ErbB-2, JunB, JunD, TGF-beta 1 or beta 2 to control
AC      proliferation of primary cell cultures (e.g. bone marrow stem, liver or
AC      kidney cells, osteoblasts, osteoclasts and/or keratinocytes). The
AC      oligonucleotides can also be used to analyse function of proteins (by
AC      affecting their expression or activity) and therapeutically, e.g. in
AC      cases of cancer or (targeting TGF) for stimulating the immune system.
XX
SQ      Sequence 21 BP: 3 A; 5 C; 12 G; 1 T; 0 other;

Query Match      85.0%; Score 17; DB 19; Length 21;
Best Local Similarity 100.0%; Pred. No. 50002;
Matches 17; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

CY      1 GAGGGGAGGAGGAGGAGG 17
      11111111111111111111
Db      5 GAGGGGAGGAGGAGGAGG 21

RESULT 6
AAV48412
Db      AAV48412 standard; DNA: 45 BP.
XX
AC      AAV48412:
XX
Db      26 MAR 2002 (first entry)
XX
Db      Mouse clonked 2 cDNA cloning forward primer.
XX
Db      Clonked 2; cysteine knot motif; nephrotropic; cardiant; immunomodulation;
KW      hepatotropic; antiinflammatory; and thyroid; cytostatic; neuroprotective;
KW      antitumor; hypotensive; antiarrhythmic; antiarteriosclerotic; muscular;
KW      and distal; anorectic; gene therapy; cell therapy; and isense therapy;
KW      mouse; PCR primer; ss.
XX
OS      Mus musculus.
XX
PN      WU200192408 A2.
XX
PD      06 DEC 2001.
XX
PF      29 MAY 2001; 2001WO 0817478.
XX
PR      01 JUN 2000; 2000US 208556P.
XX
PR      04 AUG 2000; 2000US 223542P.
XX
PA      (AMGE ) AMGEN INC.
XX
PI      Paszty CL. Gao Y.
XX
PR      WPI: 2002 111425/15.
XX
PT      New human and mouse cysteine knot polypeptide designated as clonked 2,
PT      for treating or preventing kidney, heart (e.g. myocardial infarction)
PT      or liver (e.g. hepatitis) diseases
XX
XX      Example 2: Page 139; 170pp; English.
XX
PT      The invention relates to polypeptides comprising a cysteine knot motif and
AC      designated as clonked 2, derived from human and mouse. The clonked 2
AC      polypeptides can be expressed by standard recombinant methodology. The
AC      clonked 2 polynucleotides are useful in gene therapy and in isense
AC      therapy. The clonked 2 polypeptides and polynucleotides are useful for
AC      treating, preventing, ameliorating or detecting diseases and disorders of
AC      the kidney (e.g. anemia, hypertension or low blood pressure), heart (e.g.
AC      cardiac hypertrophy, congestive heart failure, myocardial infarction,
AC      arrhythmias, atherosclerosis, hypertension or low blood pressure),
AC      skeletal muscle (e.g. muscular dystrophy or cachexia), placenta (e.g.
AC      congenital abnormalities or miscarriage), liver (e.g. hepatitis or
AC      cirrhosis), pancreas (e.g. diabetes or pancreatitis), thyroid (e.g.
AC      Grave's disease or myxedema) or adrenal cortex (e.g. Cushing's disease
AC      or Addison's disease), hematostasis or metabolic diseases (e.g. obesity,
AC      cancer or myopathies), infections, or autoimmune diseases. Selective
AC      binding agents may be used to modulate the biological activities of
AC      clonked 2 polypeptides or to detect clonked 2 polypeptide levels in a
AC      sample. Transgenic non human animals are useful for drug candidate
AC      screening. The present sequence represents a PCR primer for cloning the
AC      mouse clonked 2 polypeptide encoding cDNA.
XX
SQ      Sequence 45 BP: 9 A; 19 C; 8 G; 9 T; 0 other;

Query Match      76.0%; Score 15.2; DB 24; Length 45;
Best Local Similarity 86.0%; Pred. No. 240000;
Matches 17; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

CY      1 GAGGGGAGGAGGAGGAGG 20
      11111111111111111111
Db      3 GAGGGGAGGAGGAGGAGG 12

RESULT 7
AAV48418
Db      AAV48418 standard; DNA: 18 BP.
XX
AC      AAV48418:
XX

```

```

XX 15-MAY-1998 (first entry)
XX Transforming growth factor beta-1 antisense oligonucleotide N6.
DE Transforming growth factor beta-1; TGF-beta-1;
XX Transforming growth factor beta-1; TGF-beta-1;
KW antisense oligonucleotide; modulate; gene expression; ss.
XX Synthetic.
OS Homo sapiens.
XX EP856579-A1.
XX 05-AUG-1998.
XX 31-JAN-1997; 97EP-0101541.
XX 31-JAN-1997; 97EP-0101541.
XX (R1-3) BLOOMINGDALE DIAPYCNOSIS.
XX Brysch W. Schlundtgen K;
XX WPI: 1998-400910/45.
XX Preparation of antisense oligonucleotide(s) which lack long runs of
PT consecutive guanine or inosine - and have specific ratio of
PT residues able to form two or three hydrogen bonds, have greater
PT activity and reduced toxicity, used therapeutically or to modulate
PT growth of cells in culture
XX Example 1; Fig 3a; 286pp; English.
XX AAV48412-84 represent antisense oligonucleotides directed against
XX transforming growth factor beta-1 (TGF-beta-1). The oligonucleotides
XX exemplify the invention. The specification describes oligonucleotides
XX that contain 8-30 nucleotides, which contain at most 8 nucleotides that
XX can each form three hydrogen bonds to cytosine; do not contain four
XX consecutive nucleotides able to form three H-bonds each to four
XX consecutive cytosines; do not contain two sequences of three consecutive
XX nucleotides each able to form three H-bonds to three consecutive
XX cytosines, and the ratio between residues able to form two H-bonds each
XX (2R) or three such bonds (4R) is given by 2R/4R = 0.33-0.72. The
XX oligonucleotides are used to modulate expression of genes, particularly
XX the genes for p53, ErbB-2, junB, junD, TGF-beta 1 or beta 2 to control
XX proliferation of primary cell cultures (e.g. bone marrow stem, liver or
XX kidney cells, osteoclasts, osteoblasts and/or keratinocytes). The
XX oligonucleotides can also be used to analyse function of proteins (by
XX altering their expression or activity) and therapeutically, e.g. in
XX cases of cancer or (targeting TGF) for stimulating the immune system.
XX Sequence 18 BP; 2 A; 4 C; 11 G; 1 T; 0 other;
SQ Query Match 75.0%; Score 15; DB 19; Length 18;
Best Local Similarity 100.0%; Pred. No. 3,2e+04;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 GAAGGAGGATGAGG 15
DB 4 GAAGGAGGATGAGG 18
RESULT 8
ARK14716/
ID ARK14716 standard; DNA: 24 BP.
XX ARK14716;
XX ARK14716;
XX 24 APR 2002 (first entry)
DE Nucleic acid probe #2 incorporating black hole quencher.
XX Black hole quencher; BHQ; probe; ss.

```

```

XX Synthetic.
XX 05-NOV-2001 A1.
XX 15-NOV-2001.
XX 08-MAY-2001; 2001WO-0515082.
XX 09-MAY-2000; 2000US-0567863.
XX (Bios) BIOSEARCH TECHNOLOGIES INC.
XX Cook RM, Lytle M, Dick D;
XX WPI: 2002-14749/19.
XX Novel black hole quenchers for detecting and quantifying chemical and
PT biological substances, contains optionally substituted aryl and/or
PT heteroaryl radicals, covalently linked through exocyclic diazo bond
XX Disclosure; Fig 8; 95pp; English.
XX The invention relates to a black hole quencher (BHQ) (1) of excited state
XX energy having a structure comprising at least three radicals from
XX optionally substituted aryl and/or heteroaryl, where at least two of the
XX radicals are covalently linked through an exocyclic diazo bond. The
XX quencher further comprises a reactive functional group providing a locus
XX for conjugation of the quencher to a carrier molecule. (1) is useful for:
XX (a) determining whether a sample contains an enzyme; (b) determining
XX whether a compound affects an activity of an enzyme; (c) detecting a
XX nucleic acid target sequence; (d) detecting amplification of a target
XX sequence; (e) ascertaining whether a first nucleic acid and a second
XX nucleic acid hybridize; (f) probing a microarray for the presence of a
XX compound; and (g) detecting or quantifying a molecular species. The
XX present sequence represents a probe incorporating an exemplary BHQ used
XX in the method of the invention.
XX Sequence 24 BP; 2 A; 14 C; 3 G; 5 T; 0 other;
SQ Query Match 74.0%; Score 14.8; DB 24; Length 24;
Best Local Similarity 88.9%; Pred. No. 3,8e+04;
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
QY 2 AGGAGGATGAGGAGG 19
DB 21 AGGAGGATGAGGAGG 4
RESULT 9
AAF23639
ID AAF23639 standard; DNA: 25 BP.
XX AAF23639;
XX 27-MAR 2001 (first entry)
XX Tagman probe.
XX Tagman probe; hybridisation probe; primer; ss.
XX Unidentified.
XX Key location/qualifiers
PT modified_base 1 /*taq a
PT /*taq a
PT /mod_base OTHER
PT /note "OTHER FAM"
PT modified_base 25
PT /*taq b
PT /mod_base OTHER
PT /note "OTHER FAM"
XX

```

```

PN W020007547H A1.
XX
PD 14 DEC 2000.
XX
XX 08 JUN 2000; 2000W0 US1614B.
XX
PR 09 JUN 1999; 900S 014847b.
PR 08 JUN 2000; 2000US 014847b.
XX
PA (BIO-S ) BIOSEARCH TECHNOLOGIES INC.
XX
XX Cook RM.
XX
XX WPI; 2001 080601/09.
XX
XX New nucleic acid compounds used as primers for amplifying DNA and
PT conformationally assisted probes for analyzing or quantitating DNA
XX
XX Example 1; Page 54; 71pp; English.
XX
XX The present invention relates to novel probes, which can be used as
CC hybridisation probes for analysing and quantitating target nucleic acid
CC by 5'-nuclease assay and/or rolling circle amplification and as primers
CC for amplifying DNA by PCR, nucleic acid sequence based amplification
CC (NASBA) and/or strand displacement amplification (SDA). The probes detect
CC nucleic acids rapidly, reliably and quantitatively with high sensitivity.
CC The present sequence is one such probe.
XX
XX Sequence 25 BP; 5 A; 4 C; 14 G; 3 T; 0 other;
SQ

```

```

Query Match 74.0K; Score 14.8; DB Z2; Length 25;
Best Local Similarity 88.9K; Pred. No. 3,Re=0.4;
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

```

```

QY 2 AGGAGGAGATGGGAGG 19

```

```

DB 111 11111111111

```

```

DB 4 AGGAGGAGATGGGAGG 21

```

```

RESULT 10

```

```

AAF26640
ID AAF26640 standard; DNA; 25 BP.
XX
AAE26640;
XX
XX 27 MAR 2001 (first entry)
XX
DE CAP probe.
XX
XX CAP probe; hybridisation probe; primer; conformationally assisted probe;
KW conformationally assisted probe; ss.
XX
OS unidentified.
XX
XX Key Location/Qualifiers
FH modified_base 1
FT /*tag a
FT /mod_base OTHER
FT /note "OTHER FAM-CBPd."
FT modified_base 25
FT /*tag b
FT /mod_base OTHER
FT /note "OTHER CBOL-TAMRA"
XX
PN W020007547H A1.
XX
XX 14 DEC 2000.
XX
XX 08 JUN 2000; 2000W0 US1614B.
XX
PR 09 JUN 1999; 900S 014847b.
PR 08 JUN 2000; 2000US 014847b.
XX

```

```

PA (BIO-S ) BIOSEARCH TECHNOLOGIES INC.
XX
XX Cook RM.
XX
XX WPI; 2001 080601/09.
XX
XX New nucleic acid compounds used as primers for amplifying DNA and
PT conformationally assisted probes for analyzing or quantitating DNA
XX
XX Example 1; Page 54; 71pp; English.
XX
XX The present invention relates to novel probes, which can be used as
CC hybridisation probes for analysing and quantitating target nucleic acid
CC by 5'-nuclease assay and/or rolling circle amplification and as primers
CC for amplifying DNA by PCR, nucleic acid sequence based amplification
CC (NASBA) and/or strand displacement amplification (SDA). The probes detect
CC nucleic acids rapidly, reliably and quantitatively with high sensitivity.
CC The present sequence is one such probe; a conformationally assisted
CC probe (CAP).
XX
XX Sequence 25 BP; 5 A; 4 C; 14 G; 3 T; 0 other;
SQ

```

```

Query Match 74.0K; Score 14.8; DB Z2; Length 25;
Best Local Similarity 88.9K; Pred. No. 3,Re=0.4;
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

```

```

QY 2 AGGAGGAGATGGGAGG 19

```

```

DB 111 11111111111

```

```

DB 4 AGGAGGAGATGGGAGG 21

```

```

RESULT 11

```

```

ABK14714/C

```

```

ID ABK14714 standard; DNA; 25 BP.
XX
XX ABK14714;
XX
XX 23 APR 2002 (first entry)
XX
DE Dual labeled probe.
XX
XX Dual labeled probe; black hole quencher; BBQ; probe; ss.
XX
XX Synthesized.
XX
XX Key Location/Qualifiers
FH modified_base 1
FT /*tag a
FT /mod_base A
FT /note "optionally labeled FAM, Cy3 or Cy5"
FT modified_base 25
FT /*tag b
FT /mod_base G
FT /note "optionally labeled with quencher TAMRA, DAPI-FL,
FT BBI, BBQ, or BII"
XX
XX W020018600 A1.
XX
XX 15 NOV 2001.
XX
XX 08 MAY 2001; 2001W0 US15082.
XX
XX 09-MAY 2000; 2000US 0167864.
XX
XX (BIO-S ) BIOSEARCH TECHNOLOGIES INC.
XX
XX Cook RM. Lytle M. Dick D.
XX
XX WPI; 2002 147401/19.
XX

```

```

XX Novel black hole quenchers for detecting and quantifying chemical and
PT biological substances, containing optically substituted aryl and/or
PT heteroaryl radicals, covalently linked through exocyclic diene bond

```

PT	Real-time monitoring of nucleic acid amplification reaction - using	
PT	two fluorescent indicators generating signals proportional to amount	
PT	of amplification prod. and volume of reaction mixture	
XX		
PS	Example; Page 13; 25pp; English.	
XX		
CC	A 296 bp segment of a target DNA encoding human beta-actin was PCR	
CC	amplified using the primer pair AAT06018/19, and the fluorescein and	
CC	tetramethylrhodamine labelled probe AAT06020. By transmitting an	
CC	excitation beam by a fibre optic into the vol. of the reaction mix.	
CC	via a coaxial lens, the 2 fluorescent indicators generate signals	
CC	proportional to the amount of amplification prod. and vol. of	
CC	reaction mix.. This property can be used to measure, in real time,	
CC	the polynucleotide prods. from the nucleic acid amplification	
CC	process.	
XX		
SQ	Sequence 26 BP; 3 A; 13 C; 4 G; 6 T; 0 other;	
	Query Match 74.0%; Score 14.8; DB 16; Length 26;	
	Best Local Similarity 86.9%; Pred. No. 3,80,04;	
	Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps	
QY	2 AGGCGGATGCGGAGG 19	
DB	22 AGGATGCGGAGG 5	
XX		
XX	AAT43558;	
DL	18-JUL-1997 (first entry)	
XX		
DE	Fluorescein-labelled probe used for combined amplification/detection	
XX		
KW	probe; hybridisation; PCR; polymerase chain reaction; primer;	
KW	amplification; detection; labelled; fluorescence; quencher;	
KW	rhodamine; ss.	
XX		
OS	Synthetic.	
XX		
PH	Key Location/Qualifiers	
FT	misc_feature 1	
FT	/*tag= a	
FT	/note= "labelled with 6-carboxyfluorescein"	
XX		
PN	W09634983-A1.	
XX		
PD	07-NOV-1996.	
XX		
PF	05-APR-1996; 95WO-US04693.	
XX		
PP	05-MAY-1995; 95US-0435509.	
XX		
PA	(PERKIN-ELMER CORP.	
XX		
PI	May and FE;	
XX		
DB	W01; 1996-506182/50.	
XX		
PT	oligo;nucleotide probe for combined amplification and hybridisation	
PT	process - has fluorescer mol. at one end with quenching mol. at the	
PT	other end and is used in absence of 5' to 3' exonuclease activity	
XX		
XX	Claim 1; Page 16; 24pp; English.	
XX		
CC	AAT43558-143561 are random oligonucleotide probes capable of hybridizing	
CC	to a target polynucleotide (PN). They have a fluorescer molecule (FM)	
CC	attached to their 5'-ends and a quencher molecule (QM) attached to the	
CC	other end, such that the QM quenches the fluorescence of the FM when	
CC	the probe is in a single-stranded state. The fluorescer-stays monomeric	

CC when the probe is in a double stranded state (i.e. hybridised to  
 CC its target). The probes also have 5'-modifications, e.g.  
 CC phosphoramidite bonds, to render them impervious to digest in  
 CC 5' to 3' exonuclease activity of a polymerase. The probes are used in  
 CC a combined PCR amplification and hybridisation probing method,  
 CC using the method combined amplification and hybridisation probe  
 CC detection of amplified nucleic acid target sequence can be carried out  
 CC in a single reaction vessel using a single reagent. Also, amplification  
 CC and probing steps are performed in a combined manner such that no  
 CC reagent additions are required subsequent to the amplification step.

XX Sequence 26 BP: 3 A: 14 C: 4 G: 6 T: 0 other:

Query Match 74.0% Score 14.8; DB 17; Length 26;  
 Best Local Similarity 88.9%; Prod. No. 480004;  
 Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 2 AGGGAGGATGGGGAGG 19

DB 111 TTTTTTTTTT 5

DB 22 AGGATGGATGGGGAGG 5

#### RESULT 14

AA12422/c  
 ID AA12422 standard; DNA: 26 BP.

AC AA12422;

DI 09 JAN 1997 (first entry)

DE Probe AL.

XX Primer: Probe; target sequence; nucleic acid amplification;  
 KW polymerase; fluorescent reporter molecule; quencher molecule; SS.  
 KW Synthetic.

XX Key Location/Qualifiers

FT modified base 2 /\*tag a  
 FT /note "Linker arm nucleotide phosphoramidite"  
 FT modified base 7 /\*tag b  
 FT /note "Linker arm nucleotide phosphoramidite"  
 FT modified base 14 /\*tag c  
 FT /note "Linker arm nucleotide phosphoramidite"  
 FT modified base 19 /\*tag d  
 FT /note "Linker arm nucleotide phosphoramidite"  
 FT modified base 22 /\*tag e  
 FT /note "Linker arm nucleotide phosphoramidite"  
 FT modified base 26 /\*tag f  
 FT /note "Modified by phosphatase (RTM)"

W09615270 AL.

DI 24 MAY 1996.

XX 15 NOV 1995; 95WO 0514882.

XX 16 NOV 1994; 94US 0340568.

XX (PEKE ) PERKIN ELMER CORP.

XX Flood SJA, Livak KJ, Martamaro J, Mullish KB;

XX WPT; 1996 259863/26.

XX Self-quenching fluorescent oligonucleotide probe useful to, e.g.,  
 PT monitor nucleic acid amplification reactions

XX Example; Page 22; 61pp; English.

XX The sequences given in AA12414-27 represent primers, probes and  
 CC target sequences used in the method of the invention for monitoring  
 CC nucleic acid amplification. The method comprises performing nucleic  
 CC acid amplification using a polymerase having 5'-3' nuclease activity,  
 CC a primer capable of hybridising to the target polynucleotide and an  
 CC oligonucleotide probe capable of hybridising to the target sequence  
 CC 3' relative to the primer. The probe has a fluorescent reporter  
 CC molecule and a quencher molecule capable of quenching the fluorescence  
 CC of the reporter molecule. The probe exists in at least one stable  
 CC stranded (SS) conformation when hybridised where the quencher  
 CC molecule quenches the fluorescence of the reporter molecule. The probe  
 CC exists in at least one conformation when hybridised to the target  
 CC sequence where the fluorescence of the reporter molecule is unquenched.  
 CC The fluorescent intensity of the reporter molecule being greater than  
 CC the fluorescent intensity of the quencher molecule when the probe is  
 CC hybridised to the target sequence. The polymerase digests the probe  
 CC during amplification to separate the reporter molecule from the quencher  
 CC molecule. The generation of fluorescence corresponds to the occurrence  
 CC of nucleic acid amplification.

XX Sequence 26 BP: 3 A: 14 C: 4 G: 6 T: 0 other:

Query Match 74.0% Score 14.8; DB 17; Length 26;  
 Best Local Similarity 88.9%; Prod. No. 480004;  
 Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 2 AGGGAGGATGGGGAGG 19

DB 111 TTTTTTTTTT 5

DB 22 AGGATGGATGGGGAGG 5

#### RESULT 15

AA194058/c  
 ID AA194058 standard; DNA: 26 BP.

AC AA194058;

DI 06 MAY 1996 (first entry)

XX Capture probe used a portion of the human beta actin gene.  
 DE Target sequence; detection; hybridisation platform; capture probe;  
 KW signal-amplified system; biological fluid; forensic sample;  
 KW beta actin gene; SS.

XX Synthetic.

XX Homo Sapiens.

XX W09741256 AL.

XX 06 NOV 1997.

XX 25 APR 1997; 97WO 0307014.

XX 26 APR 1996; 96US 0659224.

XX (AHO ) Abbott Lab.

XX Bodmer SK, Chittaro JL, Strabados EN, Solomon NA;

XX WPT; 1997 549752/26.

XX Detecting several nucleic acid targets by hybridisation to  
 PT immobilised, labelled probes uses same labelled system for all  
 PT assays, e.g. in diagnosis or forensic studies

XX Example 1; Page 21; 26pp; English.

XX Capture probes AA194058-59 were used to detect a portion of the human  
 CC beta actin gene (AA194060). The probes are labelled with a

CC 3' terminal thiol coupler, polyethylene oxide spacer, fluorescein  
 CC sequence, or a 4'-pyrene nucleoside phosphoramidite. The probes are used  
 CC to exemplify the method of the invention. The method, which detects  
 CC several target sequences, comprises applying a sample to a hybridisation  
 CC platform which has at least 2 capture probes (AA193058-59) immobilised in  
 CC a defined pattern. Each of the capture probes has a distinctive sequence,  
 CC and is labelled with at least one member of a signal-generating system.  
 CC Hybridisation of any target sequence to the probes at a particular site  
 CC results in a detectable change in the signal from that site. The method  
 CC is used to detect nucleic acids in biological fluids or in forensic  
 CC samples.

XX Sequence 26 BP; 3 A; 13 C; 4 G; 6 T; 0 other;

Query Match 74.0%; Score 14.8; DB 18; Length 26;  
 Best Local Similarity 88.9%; Pred. No. 3.8e+04;  
 Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 2 AGGAGGCAAGGGAGG 19  
 III IIIIIIIIIII  
 DB 22 AGGAGGCAAGGGAGG 5

RESULT 16  
 AAV16.26/c  
 ID AAV16.266 standard; DNA: 26 BP.  
 AC AAV16.266;

DI 01-JUN-1998 (first entry)

XX Dual labeled fluorescein/rhodamin probe.

XX Probe: fluorescent label: acceptor fluorophore;  
 KW fluorescein; donor fluorophore: Cy5; Cy5.5; light excitation;  
 KW fluorescence energy transfer pair; detection: heterozygosity;  
 KW factor V Leiden; mutation; amplification; concentration; SS.

XX Synthetic.

XX Key location/Qualifiers  
 FH modified\_base 1 /\*taq= a  
 FT /label= Fluorescein  
 FT modified\_base 7 /\*taq= b  
 FT /label= Rhodamin  
 FT /note= "attached by an amino-linker arm"

XX W09746714 A1.

PN 11 DEC 1997.

DI 04-JUN-1997; 97W0-0S10008.

XX 17 MAR-1997; 97US-0818267.

PR 04-JUN-1996; 96US-0658993.

XX (UTAH ) UNIV UTAH RES FOUND.

PA Rasmussen RP, Kirio KM, Wittwer CT;

XX WPT: 1998 042220/04.

XX Analysing target DNA in presence of two fluorophore labeled probes  
 PT - useful for real time monitoring of polymerase chain reaction,  
 PT detecting heterozygosity, determining PCR completion, etc

XX Example 4; Page 69; 217pp; English.

XX The present probe is a dual labeled probe (see features). The potential  
 CC signal from the fluorescein/Cy5 pair (AAV16.265) was compared with the  
 CC signal from a fluorescein/rhodamin pair (present probe), and found

CC to be 10 fold higher. The probes are used to exemplify the method  
 CC of the invention which is used to analyse a target DNA sequence. The  
 CC method comprises amplifying the target sequence by PCR in the presence  
 CC of two nucleic acid probes that hybridise to adjacent regions of the  
 CC target sequence, one of the probes being labelled with an acceptor  
 CC fluorophore (preferably fluorescein) and the other with a donor  
 CC fluorophore (preferably Cy5 or Cy5.5). Upon hybridisation the donor and  
 CC acceptor fluorophores are within 25 nucleotides of one another. The  
 CC sample containing the target sequence is excited with light at a wave  
 CC length absorbed by the donor fluorophore, and the emission from the  
 CC fluorescence energy transfer pair is detected, preferably by monitoring  
 CC the temperature dependent fluorescence. The method is used to detect  
 CC differences, e.g. heterozygosity, between nucleotides at selected loci,  
 CC especially in the detection of a factor V Leiden mutation in an  
 CC individual. The method can also be used to monitor amplification and  
 CC determine the concentration of an amplified product or to quantify the  
 CC initial copy number of the target sequence in the sample.

XX Sequence 26 BP; 3 A; 13 C; 4 G; 6 T; 0 other;

Query Match 74.0%; Score 14.8; DB 19; Length 26;  
 Best Local Similarity 88.9%; Pred. No. 3.8e+04;  
 Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 2 AGGAGGCAAGGGAGG 19  
 III IIIIIIIIIII  
 DB 22 AGGAGGCAAGGGAGG 5

RESULT 17  
 AAV15.428/c

ID AAV15.428 standard; DNA: 26 BP.

AC AAV15.428;

XX 28-MAY-1998 (first entry)

DI Human actin probe SEQ ID NO:3.

XX Human; actin; probe; hybridisation; amplification; reagent composition;

XX detection; fluorophore; SS.

XX Synthetic.

XX Homo sapiens.

XX Key location/Qualifiers

FT modified\_base 1

FT /\*taq= a

FT /label= FAM

FT /note= "FAM indicates a fluorescein molecule coupled to

FT the oligonucleotide by reacting an NHS-ester

FT group attached to the fluorescein's 6 carbon

FT with a 5'-aminophosphate attached to the

FT 5'-terminal deoxyadenosine of the

FT oligonucleotide"

FT modified\_base 7

FT /\*taq= b

FT /label= IMR

FT /note= "IMR indicates a tetramethylrhodamine molecule

FT coupled to the base moiety of the adjacent

FT thymidine"

XX W09746708 A1.

XX 11 DEC 1997.

XX 04-JUN-1997; 97W0-0S09648.

XX 04-JUN-1996; 96US-0657489.

XX (PERKIN ELMER CORP.

XX LITVAK KJ. Method 13;

XX  
DE WPT: 1998 04Z214/04.  
XX  
PT Recent composition for detection of nucleic acid amplification  
PT products includes internal reference molecule comprising 1st and  
PT 2nd fluorophores joined by oligonucleotide backbone connector  
XX  
PS Example: Page 17; 6pp; English.  
XX  
CC The present sequence represents a probe for human actin used in the  
CC example of the present invention. The present invention describes: (1)  
CC an internal composition comprising a nucleic acid amplification buffer and  
CC an internal reference molecule (1), comprising a 1st and 2nd fluorophore  
CC and a backbone connector that does not hybridise in a sequence specific  
CC manner to a polynucleotide for amplification under nucleic acid  
CC amplification conditions, where the backbone connector joins the 2  
CC fluorophores so as to permit energy transfer from the 1st to 2nd; and (2)  
CC measuring the amount of an amplification product of a polynucleotide for  
CC amplification in a nucleic acid amplification reaction, comprising  
CC adding (1) to the amplification reaction. (1) can be used to quantify  
CC the formation of amplification products in nucleic acid amplification  
CC reactions, and monitor, in real time, the progress of a nucleic acid  
CC amplification reaction. The fluorescent reagents can generate a stable  
CC fluorescent signal proportional to the amount of amplification product,  
CC which is independent of variations in the volume of the reaction  
CC mixture. The level of fluorescent signal from (1) remains constant  
CC throughout a fluororescent-quencher probe assay. (1) allows multiple  
CC fluororescent-quencher probes to be used in a single amplification  
CC reaction.  
XX  
SQ Sequence 26 BP; 3 A; 13 C; 4 G; 6 T; 0 other;

Query Match 74.0%; Score 14.8; DB 19; Length 26;  
Best Local Similarity 88.9%; Pred. No. 3,80004;  
Matches 16; Conservatize 0; Mismatches 2; Indels 0; Gaps 0;

QY 2 AGGAGGAGATGGAGG 19  
111 11111111111  
1b 22 AGGATGGATGGAGG 5

RESULT 18  
AAAG0480/c  
1b AAAG0480 standard; DNA; 26 BP.  
XX  
AC AAAG0480;  
XX  
1b 10 JAN 2001 (first entry)  
XX  
DE Labeled SGL oligonucleotide.  
XX  
KW SGL oligonucleotide; phosphoramidate oligonucleotide;  
KW labeled oligonucleotide; solid support; ss.  
XX  
OS Synthetic.

Key Location/Qualifiers  
FI modified\_base 1  
FI /\*tag a  
FI /note "5' end is conjugated to a NBR moiety via either  
FI an amino group or a phosphate group"  
FI modified\_base 1..26  
FI /\*tag b  
FI /note "phosphoramidate linkages"

PN W0200050442 AZ.  
XX  
XX 31 AUG 2000.  
XX  
1b FEB 2000; 2000W0 US04214.  
XX  
XX 22 FEB 1999; 99DS 0256440.  
XX

PA (PERKIN ELMER CORP.  
XX  
1b Vinayak RS, Lee JS, Mullaly KB, Rosenblum BR;  
XX WPT: 2000 07Z005/c.  
XX  
1b Synthesis of labeled oligonucleotides uses a labeled solid support  
1b structure.  
XX  
1b Example 5; Page 25; 4pp; English.  
XX  
1b The invention relates to a novel method of synthesizing labeled  
1b oligonucleotides. The method comprises reacting a labeled solid support  
1b with acid to remove the acid cleavable protecting group and then adding  
1b a 5' phosphoramidite, 4' protected nucleoside and an activator to form a  
1b bond between the labeled solid support and the nucleoside. The method  
1b is used to rapidly and economically synthesise labeled oligonucleotides  
1b on solid supports under conditions which are compatible with chemically  
1b labile functionality. The present sequence represents an oligonucleotide  
1b synthesised in an exemplification according to the method of the  
1b invention.

SQ Sequence 26 BP; 3 A; 13 C; 4 G; 6 T; 0 other;

Query Match 74.0%; Score 14.8; DB 21; Length 26;  
Best Local Similarity 88.9%; Pred. No. 3,80004;  
Matches 16; Conservatize 0; Mismatches 2; Indels 0; Gaps 0;

QY 2 AGGAGGAGATGGAGG 19  
111 11111111111  
1b 22 AGGATGGATGGAGG 5

RESULT 19  
AAST1184/c  
1b AAST1184 standard; DNA; 26 BP.  
XX  
AC AAST1184;  
XX  
1b 24 OCT 2001 (first entry)  
XX  
1b Human beta globin internal probe #7.  
XX  
KW Beta globin; human; probe; nucleic acid quantification; ss.  
XX  
OS Homo sapiens.

Key Location/Qualifiers  
FI modified\_base 1  
FI /\*tag a  
FI /note "Fluorescein labeled"  
FI modified\_base 2  
FI /\*tag b  
FI /note "rhodamine labeled"

PN US6252079 B1.  
XX  
XX 15 MAY 2001.  
XX  
1b 04 AUG 2000; 2000RS 0635444.  
XX  
1b 04 JUN 1997; 97DS 0004276.  
XX  
1b 04 JUN 1996; 96DS 0058994.  
XX  
1b 17 MAR 1997; 97DS 0018267.  
XX  
1b (UIAH) UNIV UTAH RGS FOUND.  
XX  
1b Willet et al, Fritio KM, Rosenblum BR;  
XX WPT: 2001 05Z018/c.  
XX



PT Quantitation of amplified product in polymerase chain reaction by  
 PT determining rate constant for known concentrations of product, rate of  
 PT annealing of unknown concentrations of product and quantifying from the  
 PT two

XX Example 4: Column 28; 87pp; English.

BS The invention relates to a method for determining the concentration of an  
 CC amplified product (AP) in a selected PCR (polymerase chain reaction)  
 CC mixture, determining concentration of an amplified product (AP) in a  
 CC selected PCR mixture, comprises determining second order rate constant  
 CC for AP at selected temperature and reaction conditions by monitoring rate  
 CC of hybridisation of known concentration of AP, determining rate of  
 CC annealing for an unknown concentration of AP and calculating AP  
 CC concentration from rate of annealing and second order rate constant. The  
 CC method is useful for determining the concentration of a nucleic acid  
 CC product amplified by PCR. The present sequence represents the human  
 CC beta globin internal probe #7 used in an example which demonstrates  
 CC the method of the invention.

XX SQ Sequence 26 BP; 4 A; 13 C; 4 G; 6 T; 0 other;

Query Match 74.0%; Score 14.8; DB 22; Length 26;

Best Local Similarity 88.9%; Pred. No. 4.8e+03;

Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 2 AGGAGGATGAGGAGG 19  
 III IHHHHHHHHH

DB 22 AGGATGGATGAGGAGG 5

RESULT 23

AAH45994/

ID AAH45994 standard; DNA: 26 BP.

XX AC AAH45994;

XX DT 11 SEP-2001 (first entry)

XX DE Human beta-globin fragment PCR probe 7.

XX KW Human; beta-globin; PCR primer; detection; hybridisation;

XX KW Fluorescence resonance energy transfer pair; Fluorescein; Cy5;

XX KW Probe; quantification; ss.

XX CS Homo sapiens.

XX PH Key Location/Qualifiers

FT modified\_base 1

FT /\*tag a

FT /mod\_base OTHER

FT /note "Fluorescein label"

FT modified\_base 7

FT /\*tag b

FT /mod\_base OTHER

FT /note "Rhodamine label attached by a linker arm"

FT modified\_base 26

FT /\*tag c

FT /mod\_base OTHER

FT /note "Chemical phosphorylation agent"

XX FN US-24514 B1.

XX XX

XX PD 12 JUN-2001.

XX XX

XX PF 17 SEP-1999; 990S-0498629.

XX XX

XX PR 04 JUN-1997; 970S-0869276.

XX PR 04 JUN-1996; 960S-0658993.

XX PR 17 MAR-1997; 970S-0818267.

XX XX

XX PA (UTAH ) UNIV UTAH RES FOUND.

XX XX

XX DR Wittwer CL, Kille KM, Rasmussen RP;

XX XX

XX WP 2001-217674/22.

XX XX

XX PT Modification hybridization or amplification of DNA during polymerase

PI Wittwer CL;

XX DR WP1; 2001-416409/44.

XX XX

PI New fluorescence energy transfer pair with first and second probes  
 PI labelled with fluorescein and Cy5 or Cy5.5, respectively, useful for  
 PI detecting target analyte and for continuous fluorescence monitoring of  
 PI DNA amplification

XX PS Example 4: Column 27; 87pp; English.

XX CC The present sequence is that of a PCR probe for the human beta-globulin,  
 CC useful to the invention. The invention relates to fluorescence resonance  
 CC energy transfer pairs for detecting the presence of a target analyte.  
 CC The pair comprises a first probe labelled with fluorescein and a second  
 CC probe labelled with Cy5 or Cy5.5. In the presence of the target analyte,  
 CC the probes are positioned so that the fluorescein and Cy5 or Cy5.5 are  
 CC in a fluorescence resonance energy transfer relationship. The  
 CC fluorescence energy transfer pair is useful for observing hybridisation  
 CC with fluorescence during and/or immediately after PCR. Thus, the  
 CC fluorescence resonance energy transfer pair is useful for continuous  
 CC fluorescence monitoring of DNA amplification. The information obtained  
 CC from these observations is useful for product identification, sequence  
 CC alteration detection and quantification. The present method allows  
 CC monitoring of hybridisation during PCR and analysing the reaction while  
 CC it is taking place, i.e., during or immediately after temperature cycling  
 CC without manipulation of the sample.

XX SQ Sequence 26 BP; 4 A; 13 C; 4 G; 6 T; 0 other;

Query Match 74.0%; Score 14.8; DB 22; Length 26;

Best Local Similarity 88.9%; Pred. No. 4.8e+03;

Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 2 AGGAGGATGAGGAGG 19  
 III IHHHHHHHHH

DB 22 AGGATGGATGAGGAGG 5

RESULT 21

AAH59150/

ID AAF59150 standard; DNA: 26 BP.

XX AC AAF59150;

XX DT 21 APR-2001 (first entry)

XX DE Total-labeled fluorescein/rhodamine probe SEQ ID NO:20.

XX KW Human; beta-globin; hybridisation; probe; PCR primer; Fluorescein;  
 KW rapid thermal cycling; Fluorescence resonance energy transfer; MHRP;  
 KW quantitation; mutation; reannealing; hepatitis B surface antigen;  
 KW methylated erythrocyte reductase; prostate specific antigen;

XX KW amplification; detection; ss.

XX CS Synthetic.

XX XX

XX PN US6174670-B1.

XX XX

XX PD 16 JAN-2001.

XX XX

XX PF 04 JUN-1997; 970S-0869276.

XX XX

XX PR 04 JUN-1996; 960S-0658993.

XX PR 17 MAR-1997; 970S-0818267.

XX XX

XX PA (UTAH ) UNIV UTAH RES FOUND.

XX XX

XX PI Wittwer CL, Kille KM, Rasmussen RP;

XX XX

XX DR WP1; 2001-217674/22.

XX XX

XX PT Modification hybridization or amplification of DNA during polymerase

PT chain reactions, comprises using DNA dyes or specific hybridization  
PT probes, and observing fluorescence signals from a fluorescence energy  
PT transfer pair

XX Example 4; Column 2; 95pp; English.

XX The present invention describes a method for monitoring hybridisation or  
CC amplification of DNA during polymerase chain reactions (PCR) comprising  
CC employing DNA dyes or specific hybridisation probes and observing  
CC fluorescence signals from a fluorescence energy transfer pair resulting  
CC from the hybridisation or amplification. The method can be used for  
CC analysing a target DNA sequence of a biological sample, real time  
CC monitoring of a PCR amplification of a target nucleic acid sequence in  
CC a biological sample, amplifying a target nucleic acid sequence in a  
CC biological sample, detecting a target nucleic acid sequence of a  
CC biological sample, detecting a difference at a selected locus in a first  
CC nucleic acid as compared to a second nucleic acid, detecting  
CC heterozygosity at a selected locus in the genome of an individual (where  
CC the genome comprises a mutant allele and a corresponding reference  
CC allele, each comprising the selected locus), determining completion of  
CC a PCR in a PCR mixture, determining a concentration of a selected  
CC nucleic acid template by competitive quantitative PCR, monitoring  
CC amplification of a selected template in a PCR that also comprises a  
CC positive control template, or quantitating an initial copy number of a  
CC sample containing an unknown amount of nucleic acid. Monitoring  
CC hybridisation during PCR is useful for identifying and quantifying  
CC products, detecting sequence alteration, or automatically controlling  
CC the temperature cycling parameters by fluorescence feedback. AAF59143  
CC to AAF59157 represent oligonucleotide sequences used in the  
CC exemplification of the present invention.

XX Sequence 26 BP; 3 A; 13 C; 4 G; 6 T; 0 other;

Query Match 74.0%; Score 14.8; DB 22; Length 26;

Best Local Similarity 88.9%; Pred. No. 3.8e+04;

Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 2 AGAGAGGATAGAGGAG 19

111 11111111111

16 22 AGAGAGGATAGAGGAG 5

RESULT 22

AA139852/c

1D AAL39852 standard; DNA; 26 BP.

XX AAL39852;

05-SEP-2002 (first entry)

XX Allergic disease examining method related PCR primer SEQ ID No 22.

XX Antiallergic; allergic disease; carboxypeptidase M; cathepsin C; cytokin;  
KW endosrin A receptor; osteoblast-specific factor 2; D96; gene therapy;  
KW bronchial asthma; PCR; primer; SS.

XX unidentified.

W6200252006 AL.

04 JUL 2002.

21 DEC-2001; 2001W03P1287.

26 DEC-2000; 2000JP 036166.

(GENE) GENEX RES INC.

1 Ohnami N, Matsui K, Yoshida N, Saita Y, Izuhara K;

WPI; 2002 50076/53.

PT Examining allergic diseases by changes in expression levels of six

PT allergy associated genes inducible by stimulation etc. of airway  
PT epithelial cells with interleukin 4 or 13, also applicable in screening  
PT compounds

XX Example 2; Page 49; 10pp; Japanese.

XX The invention relates to a novel method for examining allergic diseases,  
CC comprising determining the expression level of a gene selected from  
CC carboxypeptidase M, cathepsin C, endosrin A receptor, osteoblast  
CC specific factor 2, D96 and cytokin in the biological sample from a  
CC patient, and comparing the expression level with that in the sample of a  
CC healthy individual. The polynucleotides of the invention can be used to  
CC treat disorders by gene therapy. The method is useful for examining  
CC allergic diseases particularly bronchial asthma and its diagnosis, which  
CC is also applicable in screening candidate compounds for remedies. Thus  
CC polynucleotide sequence represents a PCR primer relating to the  
CC invention.

XX Sequence 26 BP; 3 A; 13 C; 4 G; 6 T; 0 other;

Query Match 74.0%; Score 14.8; DB 24; Length 26;

Best Local Similarity 88.9%; Pred. No. 3.8e+04;

Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 2 AGAGAGGATAGAGGAG 19

111 11111111111

16 22 AGAGAGGATAGAGGAG 5

RESULT 24

AA137243/c

1D AAL37243 standard; DNA; 26 BP.

XX AAL37243;

22 AUG 2002 (first entry)

XX Allergic disease examination method related probe SEQ ID No; 11.

XX Allergic disease; allergy; antiallergic; interleukin 2; eosinophil;

KW atopic dermatitis; human; probe; SS.

XX unidentified.

Key Location/Qualifiers

FT modified base

F1 /star a

FT /mod base OTHER

F1 /note "modified by 6 carboxy fluorescein"

FT 26

F1 /star b

FT /mod base OTHER

F1 /note "modified by 6 carboxy n,n,n,n

FT tetramethylrhodamine"

XX W6200252122 AL.

25 APR 2002.

11 OCT-2001; 2001W0306907.

13 OCT-2000; 2000JP 0314093.

(GENE) GENEX RES INC.

PA (NIDE) JAPAN GEN INT CHILDREN'S HOSPITAL.

PA (USA) Eisai Co Ltd.

XX Saita Y, Hashida K, Ogawa K, Kobayashi M, Nakase T, Saito H;

1 Takahashi E;

WPI; 2002 57233/40.

PT Method for examining allergic diseases by differential display of

PI intersect in 2 gene showing different expression particularly

XX significant increase in eosinophils in patients

PS disclosure; Page 58; 90pp; Japanese.

XX The present invention relates to a method for examining allergic diseases  
CC with intersect in 2 gene or a gene with equivalent function of intersect in  
CC 2 as an indicator gene, which comprises determining the expression level  
CC of the gene in the eosinophils in a patient, and comparing the expression  
CC level with that in the eosinophils of a healthy individual. The method is  
CC for examining allergic diseases, particularly atopic dermatitis, which is  
CC also applicable in screening candidate compounds for remedies. The  
CC present sequence is a probe described in the exemplification of the  
CC invention.

XX Sequence 26 BP; 3 A; 14 C; 4 G; 6 T; 0 other;

Query Match 74.08; Score 14.8; DB 24; Length 26;

Best Local Similarity 88.9%; Prod. No. 3.8e+04;

Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 2 AGAGGGGATGGGGAGG 19

DB 22 AGATGGATGGGGAGG 5

RESULT 24

ABK52496/c

ID ABK52496 standard; DNA; 26 BP.

XX AC ABK52496;

XX 14 AUG 2002 (first entry)

XX Fluorescent probe for DNA encoding human beta-actin.

XX Human; detection of early stage allergic disease; atopic dermatitis;  
XX and allergic; eosinocyte; eosinophil; beta actin; probe; ss.

XX Homo sapiens.

PH Key Location/Qualifiers

FT modified\_base 1

FT /\*taq a

FT /mod\_base OTHER

FT /note OTHER labelled with FAM

FT modified\_base 7

FT /\*taq b

FT /mod\_base OTHER

FT /note OTHER labelled with FAMRA

FT modified\_base 26

FT /\*taq c

FT /mod\_base OTHER

FT /note OTHER modified with 4-phosphate

XX JP2002119281-A.

XX 24 APR 2002.

XX 11 OCT 2000; 2000JP-0311194.

XX 11 OCT 2000; 2000JP-0311194.

XX (GENE) GENEX SOYAKU KENKYUSHO KK.

XX (KOKU) KOKURITSU SHONI BYOIN INC-BO.

XX WPI; 2002-475427/51.

XX Detecting early stage allergic diseases with markers of 7 genes of  
PI GM-CSF R-beta, GM-CSF R-alpha, IL-3 R-alpha, PAF R, bcl-2, bcl-x and  
PI cbl4 in eosinophils

XX Example 1; Page 12; 25pp; Japanese.

XX The present invention relates to a method for detecting early stage  
CC allergic diseases, particularly atopic dermatitis. The method  
CC comprises determining the expression levels of granulocyte macrophage  
CC colony stimulating factor receptor alpha or beta (GM-CSF R-alpha  
CC or beta), interleukin 3 receptor alpha (IL-3 R-alpha), bcl-2,  
CC bcl-x, platelet activation factor receptor (PAF R) or CD44 in  
CC eosinocytes of a subject to be tested. The method further comprises  
CC comparison with expression levels in healthy volunteers. The method  
CC is useful for the early diagnosis and treatment of early stage  
CC allergic diseases such as atopic dermatitis. The present sequence  
CC represents a probe for DNA encoding beta-actin (used as a control)  
CC in the methods of the present invention.

XX Sequence 26 BP; 3 A; 14 C; 4 G; 6 T; 0 other;

Query Match 74.08; Score 14.8; DB 24; Length 26;

Best Local Similarity 88.9%; Prod. No. 3.8e+04;

Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 2 AGAGGGGATGGGGAGG 19

DB 22 AGATGGATGGGGAGG 5

RESULT 25

ABK59047/c

ID ABK59047 standard; DNA; 26 BP.

XX AC ABK59047;

XX 20 AUG 2002 (first entry)

XX Nucleotide sequence of a primer.

XX Human; allergosis; eosinophil; primer; ss.

XX Homo sapiens.

PH Key Location/Qualifiers

FT modified\_base 1

FT /\*taq a

FT /note 6-carboxy-fluorescein attached

FT modified\_base 7

FT /\*taq b

FT /note 6-carboxy-N,N,N',N'-tetramethylrhodamine attached

XX JP200205500-A.

XX 02 APR 2002.

XX 25 SEP 2000; 2000JP-0291416.

XX 25 SEP 2000; 2000JP-0291416.

XX (GENE) GENEX SOYAKU KENKYUSHO KK.

XX (KOKU) KOKURITSU SHONI BYOIN INC-BO.

XX WPI; 2002-439994/47.

XX Examining allergosis, involves measuring the expression levels of a

PI Specific gene, and comparing it to the levels in the eosinophils of a

PI healthy control

XX Example 1; Page 14; 20pp; Japanese.

XX The specification describes a method for examining allergosis. The  
CC method comprises measuring the expression level of the gene given  
CC in ABK59047, and comparing it with the expression level of the gene  
CC in the eosinophils of a healthy person. The method is used for the

CC examination of all sequences. The present sequence represents a  
CC primer, which is used in the course of the invention.

XX  
SQ Sequence 26 BP; 3 A; 13 C; 4 G; 6 T; 0 other;

Query Match 74.0%; Score 14.8; DB 24; Length 26;  
Best Local Similarity 86.9%; Pred. No. 4,80004;  
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 2 AAGGAGGATGAGGAGG 19  
||| |||||  
DB 22 AAGAGGATGAGGAGG 5

Search Completed: March 18, 2003, 11:01:29  
Job time : 115.82 secs

in nucleic acids multiple search, using SW method

**Run On:**      **March 18, 2003,**    **Search time** 28.1967 Seconds  
                       (without alignments)  
**217.527 Million cell updates/sec**

```

title: US-09-900-115 1
perfect score: 20
Sequence: 1 ****qqqqqqqqqqqqqq 20

```

Scoring table: IDENTITY\_Nuc  
Gapop 10.0 , Gapext 1.0

Total number of hits satisfying chosen parameters: 609618

Maximum lib seq length: 50  
Post-processing: Minimum Match: 0%

Database : Issued\_Patents\_NA:★  
Listing first 1000 summaries

```

2: /cqn2_6/ptodata/1/ina/5H_CMB.seq: *
3: /cqn2_6/ptodata/1/ina/6A_CMB.seq: *
4: /cqn2_6/ptodata/1/ina/6H_CMB.seq: *
5: /cqn2_6/ptodata/1/ina/6DME_CMB.seq: *

```

Prod. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed.

8

SUMMARIES

and is derived by analysis of the total score distribution.

Result	Query			Description
	No.	Score	Length DB ID	
c	1	20	100.0 24 1 US-08 241-172-7	Sequence 7, App

c	2	20	100.0	24	1	08-08-110-294A-1	Sequence 1, App
c	3	20	100.0	24	2	08-08-110-294B-1	Sequence 1, App
c	4	20	100.0	24	5	PCT-US95-05420-7	Sequence 7, App
c	5	18	90.0	18	5	PCT-US94-06431A-24	Sequence 24, App

1	17	85.0	21	4	US-09-287-623-1	Sequence 19, App
2	17	85.0	21	4	US-09-287-623-1	Sequence 19, App
3	17	85.0	21	4	US-09-287-623-1	Sequence 19, App
4	17	85.0	21	4	US-09-287-623-1	Sequence 19, App
5	17	85.0	21	4	US-09-287-623-1	Sequence 19, App
6	17	85.0	21	4	US-09-287-623-1	Sequence 19, App
7	17	85.0	21	4	US-09-287-623-1	Sequence 19, App
8	15.2	76.0	32	1	US-08-445-050-19	Sequence 19, App
9	15.2	76.0	32	1	US-08-204-691-19	Sequence 19, App

Sequence	14, Apr	14, Apr	15, Apr	15, Apr
c 11	15.2	76.0	42	1 US-08-204-691-14
c 12	15.2	76.0	43	1 US-08-445-050-15
c 13	15.2	76.0	43	1 US-08-204-691-15

Sequence	App	Sequence	App	Sequence	App
1	US-08-710-075-1	26	1	US-08-710-075-1	Sequence 1, App
2	US-08-559-405-9	26	1	US-08-559-405-9	Sequence 9, App
3	US-08-657-989-3	26	1	US-08-657-989-3	Sequence 3, App
4	US-08-657-989-3	26	1	US-08-657-989-3	Sequence 3, App
5	US-08-657-989-3	26	1	US-08-657-989-3	Sequence 3, App
6	US-08-657-989-3	26	1	US-08-657-989-3	Sequence 3, App
7	US-08-657-989-3	26	1	US-08-657-989-3	Sequence 3, App
8	US-08-657-989-3	26	1	US-08-657-989-3	Sequence 3, App
9	US-08-657-989-3	26	1	US-08-657-989-3	Sequence 3, App
10	US-08-657-989-3	26	1	US-08-657-989-3	Sequence 3, App
11	US-08-657-989-3	26	1	US-08-657-989-3	Sequence 3, App
12	US-08-657-989-3	26	1	US-08-657-989-3	Sequence 3, App
13	US-08-657-989-3	26	1	US-08-657-989-3	Sequence 3, App
14	US-08-657-989-3	26	1	US-08-657-989-3	Sequence 3, App
15	US-08-657-989-3	26	1	US-08-657-989-3	Sequence 3, App
16	US-08-657-989-3	26	1	US-08-657-989-3	Sequence 3, App
17	US-08-657-989-3	26	1	US-08-657-989-3	Sequence 3, App
18	US-08-657-989-3	26	1	US-08-657-989-3	Sequence 3, App
19	US-08-657-989-3	26	1	US-08-657-989-3	Sequence 3, App
20	US-08-657-989-3	26	1	US-08-657-989-3	Sequence 3, App
21	US-08-657-989-3	26	1	US-08-657-989-3	Sequence 3, App
22	US-08-657-989-3	26	1	US-08-657-989-3	Sequence 3, App
23	US-08-657-989-3	26	1	US-08-657-989-3	Sequence 3, App
24	US-08-657-989-3	26	1	US-08-657-989-3	Sequence 3, App
25	US-08-657-989-3	26	1	US-08-657-989-3	Sequence 3, App

c	19	14.8	74.0	26	2	US-08-752-973-3	Sequence 3, App.
c	20	14.8	74.0	26	2	US-08-639-224A-6	Sequence 6, App.
c	21	14.8	74.0	26	2	US-08-568-606-3	Sequence 3, App.
c	22	14.9	74.0	26	2	US-08-046-111-2	Sequence 3, App.

c	23	14.8	74.0	26	3	US-09-207-170A-9	Sequence 9, Ap
c	24	14.8	74.0	26	4	US-08-869-276-20	Sequence 20, Ap
c	25	14.8	74.0	26	4	US-09-635-344-20	Sequence 20, Ap
c	26	14.8	74.0	34	4	US-09-269-636-30	Sequence 30, Ap

c	27	14.8	74.0	26	4	US-09-256-440-4	Sequence 4, Apt
---	----	------	------	----	---	-----------------	-----------------

101	13.4	72.0	26	3	US-08-757-024-542	Sequence 542, App	174	14.4	72.0	41	3	US-08-757-024-508	Sequence 508, App
102	14.4	72.0	26	3	US-08-757-024-568	Sequence 568, App	175	14.4	72.0	41	3	US-08-757-024-612	Sequence 612, App
103	14.4	72.0	26	3	US-08-757-024-594	Sequence 594, App	176	14.4	72.0	41	3	US-08-757-024-635	Sequence 635, App
104	14.4	72.0	26	3	US-08-757-024-617	Sequence 617, App	177	14.4	72.0	41	3	US-08-757-024-657	Sequence 657, App
105	14.4	72.0	26	3	US-08-757-024-640	Sequence 640, App	178	14.4	72.0	41	3	US-08-757-024-930	Sequence 930, App
106	14.4	72.0	26	3	US-08-757-024-662	Sequence 662, App	179	14.4	72.0	42	3	US-08-757-024-257	Sequence 257, App
107	14.4	72.0	26	3	US-08-757-024-683	Sequence 683, App	180	14.4	72.0	42	3	US-08-757-024-292	Sequence 292, App
108	14.4	72.0	26	3	US-08-757-024-703	Sequence 703, App	181	14.4	72.0	42	3	US-08-757-024-326	Sequence 326, App
109	14.4	72.0	27	3	US-08-757-024-427	Sequence 427, App	182	14.4	72.0	42	3	US-08-757-024-459	Sequence 459, App
110	14.4	72.0	27	3	US-08-757-024-457	Sequence 457, App	183	14.4	72.0	42	3	US-08-757-024-459	Sequence 459, App
111	14.4	72.0	27	3	US-08-757-024-486	Sequence 486, App	184	14.4	72.0	42	3	US-08-757-024-491	Sequence 491, App
112	14.4	72.0	27	3	US-08-757-024-514	Sequence 514, App	185	14.4	72.0	42	3	US-08-757-024-452	Sequence 452, App
113	14.4	72.0	27	3	US-08-757-024-541	Sequence 541, App	186	14.4	72.0	42	3	US-08-757-024-481	Sequence 481, App
114	14.4	72.0	27	3	US-08-757-024-562	Sequence 562, App	187	14.4	72.0	42	3	US-08-757-024-509	Sequence 509, App
115	14.4	72.0	27	3	US-08-757-024-592	Sequence 592, App	188	14.4	72.0	42	3	US-08-757-024-536	Sequence 536, App
116	14.4	72.0	27	3	US-08-757-024-616	Sequence 616, App	189	14.4	72.0	42	3	US-08-757-024-562	Sequence 562, App
117	14.4	72.0	27	3	US-08-757-024-639	Sequence 639, App	190	14.4	72.0	42	3	US-08-757-024-587	Sequence 587, App
118	14.4	72.0	27	3	US-08-757-024-661	Sequence 661, App	191	14.4	72.0	42	3	US-08-757-024-611	Sequence 611, App
119	14.4	72.0	27	3	US-08-757-024-682	Sequence 682, App	192	14.4	72.0	42	3	US-08-757-024-634	Sequence 634, App
120	14.4	72.0	27	3	US-08-757-024-702	Sequence 702, App	193	14.4	72.0	42	3	US-08-757-024-929	Sequence 929, App
121	14.4	72.0	28	3	US-08-757-024-495	Sequence 495, App	194	14.4	72.0	43	3	US-08-757-024-220	Sequence 220, App
122	14.4	72.0	28	3	US-08-757-024-426	Sequence 426, App	195	14.4	72.0	43	3	US-08-757-024-254	Sequence 254, App
123	14.4	72.0	28	3	US-08-757-024-456	Sequence 456, App	196	14.4	72.0	43	3	US-08-757-024-291	Sequence 291, App
124	14.4	72.0	28	3	US-08-757-024-485	Sequence 485, App	197	14.4	72.0	43	3	US-08-757-024-480	Sequence 480, App
125	14.4	72.0	28	3	US-08-757-024-513	Sequence 513, App	198	14.4	72.0	43	3	US-08-757-024-508	Sequence 508, App
126	14.4	72.0	28	3	US-08-757-024-540	Sequence 540, App	199	14.4	72.0	43	3	US-08-757-024-535	Sequence 535, App
127	14.4	72.0	28	3	US-08-757-024-566	Sequence 566, App	200	14.4	72.0	43	3	US-08-757-024-561	Sequence 561, App
128	14.4	72.0	28	3	US-08-757-024-591	Sequence 591, App	201	14.4	72.0	43	3	US-08-757-024-421	Sequence 421, App
129	14.4	72.0	28	3	US-08-757-024-615	Sequence 615, App	202	14.4	72.0	43	3	US-08-757-024-451	Sequence 451, App
130	14.4	72.0	28	3	US-08-757-024-638	Sequence 638, App	203	14.4	72.0	43	3	US-08-757-024-480	Sequence 480, App
131	14.4	72.0	28	3	US-08-757-024-660	Sequence 660, App	204	14.4	72.0	43	3	US-08-757-024-508	Sequence 508, App
132	14.4	72.0	28	3	US-08-757-024-681	Sequence 681, App	205	14.4	72.0	43	3	US-08-757-024-535	Sequence 535, App
133	14.4	72.0	28	3	US-08-757-024-701	Sequence 701, App	206	14.4	72.0	43	3	US-08-757-024-586	Sequence 586, App
134	14.4	72.0	29	3	US-08-757-024-462	Sequence 462, App	207	14.4	72.0	43	3	US-08-757-024-616	Sequence 616, App
135	14.4	72.0	29	3	US-08-757-024-494	Sequence 494, App	208	14.4	72.0	43	3	US-08-757-024-928	Sequence 928, App
136	14.4	72.0	29	3	US-08-757-024-425	Sequence 425, App	209	14.4	72.0	43	3	US-08-757-024-182	Sequence 182, App
137	14.4	72.0	29	3	US-08-757-024-455	Sequence 455, App	210	14.4	72.0	43	3	US-08-757-024-219	Sequence 219, App
138	14.4	72.0	29	3	US-08-757-024-484	Sequence 484, App	211	14.4	72.0	43	3	US-08-757-024-255	Sequence 255, App
139	14.4	72.0	29	3	US-08-757-024-512	Sequence 512, App	212	14.4	72.0	43	3	US-08-757-024-290	Sequence 290, App
140	14.4	72.0	29	3	US-08-757-024-539	Sequence 539, App	213	14.4	72.0	43	3	US-08-757-024-324	Sequence 324, App
141	14.4	72.0	29	3	US-08-757-024-565	Sequence 565, App	214	14.4	72.0	43	3	US-08-757-024-357	Sequence 357, App
142	14.4	72.0	29	3	US-08-757-024-590	Sequence 590, App	215	14.4	72.0	43	3	US-08-757-024-489	Sequence 489, App
143	14.4	72.0	29	3	US-08-757-024-614	Sequence 614, App	216	14.4	72.0	43	3	US-08-757-024-420	Sequence 420, App
144	14.4	72.0	29	3	US-08-757-024-637	Sequence 637, App	217	14.4	72.0	43	3	US-08-757-024-450	Sequence 450, App
145	14.4	72.0	29	3	US-08-757-024-659	Sequence 659, App	218	14.4	72.0	43	3	US-08-757-024-479	Sequence 479, App
146	14.4	72.0	29	3	US-08-757-024-680	Sequence 680, App	219	14.4	72.0	43	3	US-08-757-024-507	Sequence 507, App
147	14.4	72.0	29	3	US-08-757-024-700	Sequence 700, App	220	14.4	72.0	43	3	US-08-757-024-534	Sequence 534, App
148	14.4	72.0	30	3	US-08-757-024-932	Sequence 932, App	221	14.4	72.0	43	3	US-08-757-024-560	Sequence 560, App
149	14.4	72.0	30	3	US-08-757-024-428	Sequence 428, App	222	14.4	72.0	43	3	US-08-757-024-585	Sequence 585, App
150	14.4	72.0	30	3	US-08-757-024-461	Sequence 461, App	223	14.4	72.0	43	3	US-08-757-024-927	Sequence 927, App
151	14.4	72.0	30	3	US-08-757-024-493	Sequence 493, App	224	14.4	72.0	43	3	US-08-757-024-143	Sequence 143, App
152	14.4	72.0	30	3	US-08-757-024-424	Sequence 424, App	225	14.4	72.0	43	3	US-08-757-024-181	Sequence 181, App
153	14.4	72.0	30	3	US-08-757-024-454	Sequence 454, App	226	14.4	72.0	43	3	US-08-757-024-218	Sequence 218, App
154	14.4	72.0	30	3	US-08-757-024-483	Sequence 483, App	227	14.4	72.0	43	3	US-08-757-024-254	Sequence 254, App
155	14.4	72.0	30	3	US-08-757-024-511	Sequence 511, App	228	14.4	72.0	43	3	US-08-757-024-289	Sequence 289, App
156	14.4	72.0	30	3	US-08-757-024-538	Sequence 538, App	229	14.4	72.0	43	3	US-08-757-024-323	Sequence 323, App
157	14.4	72.0	30	3	US-08-757-024-564	Sequence 564, App	230	14.4	72.0	43	3	US-08-757-024-356	Sequence 356, App
158	14.4	72.0	30	3	US-08-757-024-589	Sequence 589, App	231	14.4	72.0	43	3	US-08-757-024-488	Sequence 488, App
159	14.4	72.0	30	3	US-08-757-024-613	Sequence 613, App	232	14.4	72.0	43	3	US-08-757-024-419	Sequence 419, App
160	14.4	72.0	30	3	US-08-757-024-636	Sequence 636, App	233	14.4	72.0	43	3	US-08-757-024-449	Sequence 449, App
161	14.4	72.0	30	3	US-08-757-024-658	Sequence 658, App	234	14.4	72.0	43	3	US-08-757-024-478	Sequence 478, App
162	14.4	72.0	30	3	US-08-757-024-679	Sequence 679, App	235	14.4	72.0	43	3	US-08-757-024-506	Sequence 506, App
163	14.4	72.0	30	3	US-08-757-024-931	Sequence 931, App	236	14.4	72.0	43	3	US-08-757-024-533	Sequence 533, App
164	14.4	72.0	31	3	US-08-757-024-293	Sequence 293, App	237	14.4	72.0	43	3	US-08-757-024-559	Sequence 559, App
165	14.4	72.0	31	3	US-08-757-024-327	Sequence 327, App	238	14.4	72.0	43	3	US-08-757-024-926	Sequence 926, App
166	14.4	72.0	31	3	US-08-757-024-360	Sequence 360, App	239	14.4	72.0	43	3	US-08-757-024-103	Sequence 103, App
167	14.4	72.0	31	3	US-08-757-024-423	Sequence 423, App	240	14.4	72.0	43	3	US-08-757-024-142	Sequence 142, App
168	14.4	72.0	31	3	US-08-757-024-453	Sequence 453, App	241	14.4	72.0	43	3	US-08-757-024-180	Sequence 180, App
169	14.4	72.0	31	3	US-08-757-024-482	Sequence 482, App	242	14.4	72.0	43	3	US-08-757-024-217	Sequence 217, App
170	14.4	72.0	31	3	US-08-757-024-510	Sequence 510, App	243	14.4	72.0	43	3	US-08-757-024-253	Sequence 253, App
171	14.4	72.0	31	3	US-08-757-024-537	Sequence 537, App	244	14.4	72.0	43	3	US-08-757-024-288	Sequence 288, App
172	14.4	72.0	31	3	US-08-757-024-563	Sequence 563, App	245	14.4	72.0	43	3	US-08-757-024-322	Sequence 322, App
173	14.4	72.0	31	3	US-08-757-024-593	Sequence 593, App	246	14.4	72.0	43	3	US-08-757-024-455	Sequence 455, App



394	14	70.0	15	1	US-08-110-294A-2	Sequence 2, Appl	466	14	65.0	24	4	US-08-757-024-466	Sequence 466, Appl
c 394	14	70.0	15	1	US-08-110-294A-3	Sequence 3, Appl1	467	14	65.0	25	4	US-08-757-024-467	Sequence 467, Appl
395	14	70.0	15	2	US-08-489-926-2	Sequence 3, Appl1	468	14	65.0	25	4	US-08-757-024-468	Sequence 468, Appl
c 395	14	70.0	15	2	US-08-489-926-3	Sequence 4, Appl1	469	14	65.0	26	4	US-08-757-024-469	Sequence 469, Appl
c 396	14	70.0	15	5	PCT-US95-05420-8	Sequence 8, Appl1	470	14	65.0	26	4	US-08-757-024-470	Sequence 470, Appl
c 399	14	70.0	15	5	PCT-US95-05420-9	Sequence 9, Appl1	471	14	65.0	27	4	US-08-757-024-471	Sequence 471, Appl
c 400	14	70.0	15	5	PCT-US95-05420-8	Sequence 8, Appl1	472	14	65.0	27	4	US-08-757-024-472	Sequence 472, Appl
c 401	14	70.0	15	5	PCT-US95-05420-9	Sequence 9, Appl1	473	14	65.0	28	4	US-08-757-024-473	Sequence 473, Appl
402	14	67.0	15	3	US-08-747-546-9	Sequence 714, Appl	474	14	65.0	28	4	US-08-757-024-474	Sequence 474, Appl
c 401	14	67.0	15	3	US-08-757-024-714	Sequence 714, Appl	475	14	65.0	29	4	US-08-757-024-475	Sequence 475, Appl
403	14	67.0	16	4	US-08-757-024-743	Sequence 694, Appl	476	14	65.0	29	4	US-08-757-024-476	Sequence 476, Appl
c 404	14	67.0	16	4	US-08-757-024-694	Sequence 694, Appl	477	14	65.0	30	4	US-08-757-024-477	Sequence 477, Appl
404	14	67.0	16	4	US-08-757-024-742	Sequence 742, Appl	478	14	65.0	30	4	US-08-757-024-478	Sequence 478, Appl
c 405	14	67.0	17	3	US-08-757-024-671	Sequence 671, Appl	479	14	65.0	31	4	US-08-757-024-479	Sequence 479, Appl
406	14	67.0	17	3	US-08-757-024-741	Sequence 741, Appl	480	14	65.0	31	4	US-08-757-024-480	Sequence 480, Appl
c 407	14	67.0	18	3	US-08-757-024-648	Sequence 648, Appl	481	14	65.0	32	4	US-08-757-024-481	Sequence 481, Appl
408	14	67.0	18	3	US-08-757-024-648	Sequence 648, Appl	482	14	65.0	32	4	US-08-757-024-482	Sequence 482, Appl
c 409	14	67.0	19	3	US-08-757-024-740	Sequence 740, Appl	483	14	65.0	33	4	US-08-757-024-483	Sequence 483, Appl
410	14	67.0	19	3	US-08-757-024-624	Sequence 624, Appl	484	14	65.0	33	4	US-08-757-024-484	Sequence 484, Appl
c 411	14	67.0	20	3	US-08-757-024-729	Sequence 729, Appl	485	14	65.0	34	4	US-08-757-024-485	Sequence 485, Appl
412	14	67.0	20	3	US-08-757-024-599	Sequence 599, Appl	486	14	65.0	34	4	US-08-757-024-486	Sequence 486, Appl
c 413	14	67.0	21	3	US-08-757-024-728	Sequence 728, Appl	487	14	65.0	35	4	US-08-757-024-487	Sequence 487, Appl
414	14	67.0	21	3	US-08-757-024-573	Sequence 573, Appl	488	14	65.0	35	4	US-08-757-024-488	Sequence 488, Appl
c 415	14	67.0	22	3	US-08-757-024-727	Sequence 727, Appl	489	14	65.0	36	4	US-08-757-024-489	Sequence 489, Appl
416	14	67.0	22	3	US-08-757-024-546	Sequence 546, Appl	490	14	65.0	36	4	US-08-757-024-490	Sequence 490, Appl
c 417	14	67.0	23	3	US-08-757-024-726	Sequence 726, Appl	491	14	65.0	37	1	US-08-475-116A-126	Sequence 126, Appl
418	14	67.0	23	3	US-08-757-024-518	Sequence 518, Appl	492	14	65.0	37	1	US-08-475-116A-126	Sequence 126, Appl
c 419	14	67.0	24	3	US-08-757-024-725	Sequence 725, Appl	493	14	65.0	38	1	US-08-475-116A-126	Sequence 126, Appl
420	14	67.0	24	3	US-08-757-024-489	Sequence 489, Appl	494	14	65.0	39	4	US-08-757-024-494	Sequence 494, Appl
c 421	14	67.0	25	3	US-08-757-024-724	Sequence 724, Appl	495	14	65.0	40	1	US-08-475-116A-126	Sequence 126, Appl
422	14	67.0	25	3	US-08-757-024-459	Sequence 459, Appl	496	14	65.0	40	1	US-08-475-116A-126	Sequence 126, Appl
c 423	14	67.0	26	3	US-08-757-024-723	Sequence 723, Appl	497	14	65.0	41	1	US-08-475-116A-126	Sequence 126, Appl
424	14	67.0	26	3	US-08-757-024-428	Sequence 428, Appl	498	14	65.0	41	1	US-08-475-116A-126	Sequence 126, Appl
c 425	14	67.0	27	3	US-08-757-024-722	Sequence 722, Appl	499	14	65.0	42	1	US-08-475-116A-126	Sequence 126, Appl
426	14	67.0	27	3	US-08-757-024-496	Sequence 496, Appl	500	14	65.0	42	1	US-08-475-116A-126	Sequence 126, Appl
c 427	14	67.0	28	3	US-08-757-024-721	Sequence 721, Appl	501	14	65.0	43	1	US-08-475-116A-126	Sequence 126, Appl
428	14	67.0	28	3	US-08-757-024-363	Sequence 363, Appl	502	14	65.0	43	1	US-08-475-116A-126	Sequence 126, Appl
c 429	14	67.0	28	3	US-08-757-024-720	Sequence 720, Appl	503	14	65.0	44	1	US-08-475-116A-126	Sequence 126, Appl
430	14	67.0	28	3	US-08-757-024-433	Sequence 433, Appl	504	14	65.0	44	1	US-08-475-116A-126	Sequence 126, Appl
c 431	14	67.0	29	3	US-08-757-024-429	Sequence 429, Appl	505	14	65.0	45	1	US-08-475-116A-126	Sequence 126, Appl
432	14	67.0	30	3	US-08-757-024-294	Sequence 294, Appl	506	14	65.0	45	1	US-08-475-116A-126	Sequence 126, Appl
c 433	14	67.0	31	3	US-08-757-024-298	Sequence 298, Appl	507	14	65.0	46	1	US-08-475-116A-126	Sequence 126, Appl
434	14	67.0	32	3	US-08-757-024-221	Sequence 221, Appl	508	14	65.0	46	1	US-08-475-116A-126	Sequence 126, Appl
c 435	14	67.0	33	3	US-08-757-024-184	Sequence 184, Appl	509	14	65.0	47	1	US-08-475-116A-126	Sequence 126, Appl
436	14	67.0	33	3	US-08-757-024-144	Sequence 144, Appl	510	14	65.0	47	1	US-08-475-116A-126	Sequence 126, Appl
c 437	14	67.0	34	3	US-08-757-024-104	Sequence 104, Appl	511	14	65.0	48	1	US-08-475-116A-126	Sequence 126, Appl
438	14	67.0	34	3	US-08-757-024-63	Sequence 63, Appl	512	14	65.0	48	1	US-08-475-116A-126	Sequence 126, Appl
c 439	14	67.0	37	3	US-08-757-024-21	Sequence 21, Appl	513	14	65.0	49	1	US-08-475-116A-126	Sequence 126, Appl
440	14	66.0	25	4	US-08-838-262-3	Sequence 3, Appl1	514	14	65.0	50	4	US-08-475-116A-126	Sequence 126, Appl
c 441	14	66.0	25	4	US-08-568-714-3	Sequence 3, Appl1	515	14	65.0	50	4	US-08-475-116A-126	Sequence 126, Appl
442	14	66.0	42	4	US-09-522-666-12	Sequence 12, Appl	516	14	65.0	51	4	US-08-475-116A-126	Sequence 126, Appl
c 443	14	66.0	46	2	US-08-762-433-15	Sequence 15, Appl	517	14	65.0	51	4	US-08-475-116A-126	Sequence 126, Appl
444	14	65.0	13	3	US-08-757-024-716	Sequence 716, Appl	518	14	65.0	52	4	US-08-475-116A-126	Sequence 126, Appl
c 445	14	65.0	14	3	US-08-757-024-695	Sequence 695, Appl	519	14	65.0	52	4	US-08-475-116A-126	Sequence 126, Appl
446	14	65.0	14	3	US-08-757-024-715	Sequence 715, Appl	520	14	65.0	53	4	US-08-475-116A-126	Sequence 126, Appl
c 447	14	65.0	15	3	US-08-757-024-674	Sequence 674, Appl	521	14	65.0	53	4	US-08-475-116A-126	Sequence 126, Appl
448	14	65.0	15	3	US-08-757-024-694	Sequence 694, Appl	522	14	65.0	54	4	US-08-475-116A-126	Sequence 126, Appl
c 449	14	65.0	16	3	US-08-757-024-650	Sequence 650, Appl	523	14	65.0	54	4	US-08-475-116A-126	Sequence 126, Appl
450	14	65.0	16	3	US-08-757-024-672	Sequence 672, Appl	524	14	65.0	55	4	US-08-475-116A-126	Sequence 126, Appl
c 451	14	65.0	17	3	US-08-757-024-626	Sequence 626, Appl	525	14	65.0	55	4	US-08-475-116A-126	Sequence 126, Appl
452	14	65.0	17	3	US-08-757-024-649	Sequence 649, Appl	526	14	65.0	56	4	US-08-475-116A-126	Sequence 126, Appl
c 453	14	65.0	18	3	US-08-757-024-601	Sequence 601, Appl	527	14	65.0	56	4	US-08-475-116A-126	Sequence 126, Appl
454	14	65.0	18	3	US-08-757-024-625	Sequence 625, Appl	528	14	65.0	57	4	US-08-475-116A-126	Sequence 126, Appl
c 455	14	65.0	19	3	US-08-757-024-575	Sequence 575, Appl	529	14	65.0	57	4	US-08-475-116A-126	Sequence 126, Appl
456	14	65.0	19	3	US-08-757-024-548	Sequence 548, Appl	530	14	65.0	58	4	US-08-475-116A-126	Sequence 126, Appl
c 457	14	65.0	20	3	US-08-757-024-538	Sequence 538, Appl	531	14	65.0	58	4	US-08-475-116A-126	Sequence 126, Appl
458	14	65.0	20	3	US-08-757-024-574	Sequence 574, Appl	532	14	65.0	59	4	US-08-475-116A-126	Sequence 126, Appl
c 459	14	65.0	21	3	US-08-757-024-520	Sequence 520, Appl	533	14	65.0	59	4	US-08-475-116A-126	Sequence 126, Appl
460	14	65.0	21	3	US-08-757-024-547	Sequence 547, Appl	534	14	65.0	60	4	US-08-475-116A-126	Sequence 126, Appl
c 461	14	65.0	22	3	US-08-757-024-491	Sequence 491, Appl	535	14	65.0	60	4	US-08-475-116A-126	Sequence 126, Appl
462	14	65.0	22	3	US-08-757-024-519	Sequence 519, Appl	536	14	65.0	61	4	US-08-475-116A-126	Sequence 126, Appl
c 463	14	65.0	23	3	US-08-757-024-463	Sequence 463, Appl	537	14	65.0	61	4	US-08-475-116A-126	Sequence 126, Appl
464	14	65.0	23	3	US-08-757-024-490	Sequence 490, Appl	538	14	65.0	62	4	US-08-475-116A-126	Sequence 126, Appl
c 465	14	65.0	24	3	US-08-757-024-430	Sequence 430, Appl	539	14	65.0	62	4	US-08-475-116A-126	Sequence 126, Appl



c 549	12.6	63.0	41	4	US-09-562-432-11	Sequence 11, Appl	c 612	12	60.0	29	2	US-08-814-567A-24	Sequence 24, Appl
c 540	12.6	63.0	49	5	PCT-US94-11648-7	Sequence 7, Appl	613	12	60.0	29	3	US-08-757-024-224	Sequence 224, Appl
541	12.4	62.0	14	4	US-08-757-024-744	Sequence 744, Appl	614	12	60.0	40	1	US-07-642-744-10	Sequence 10, Appl
542	12.4	62.0	14	4	US-08-757-024-752	Sequence 752, Appl	615	12	60.0	40	3	US-08-439-009A-10	Sequence 10, Appl
543	12.4	62.0	15	4	US-08-757-024-751	Sequence 751, Appl	616	12	60.0	40	3	US-08-757-024-186	Sequence 186, Appl
544	12.4	62.0	16	4	US-08-757-024-750	Sequence 750, Appl	617	12	60.0	40	3	US-08-757-024-147	Sequence 147, Appl
545	12.4	62.0	17	4	US-08-757-024-749	Sequence 749, Appl	618	12	60.0	42	3	US-08-757-024-107	Sequence 107, Appl
546	12.4	62.0	18	4	US-08-757-024-748	Sequence 748, Appl	619	12	60.0	43	3	US-08-757-024-66	Sequence 66, Appl
547	12.4	62.0	19	3	US-08-757-024-747	Sequence 747, Appl	620	12	60.0	34	3	US-08-757-024-24	Sequence 24, Appl
548	12.4	62.0	20	3	US-08-757-024-746	Sequence 746, Appl	c 621	12	60.0	36	1	US-08-137-1170-46	Sequence 46, Appl
549	12.4	62.0	21	3	US-08-757-024-745	Sequence 745, Appl	c 622	12	60.0	36	1	US-08-436-717-46	Sequence 46, Appl
550	12.4	62.0	22	3	US-08-757-024-744	Sequence 744, Appl	c 623	12	60.0	38	2	US-08-572-959-3	Sequence 3, Appl
551	12.4	62.0	23	3	US-08-757-024-743	Sequence 743, Appl	c 624	12	60.0	38	2	US-08-817-452-3	Sequence 3, Appl
552	12.4	62.0	24	3	US-08-757-024-742	Sequence 742, Appl	c 625	12	60.0	39	2	US-08-652-558-32	Sequence 32, Appl
553	12.4	62.0	25	3	US-08-757-024-741	Sequence 741, Appl	c 626	12	60.0	49	4	US-08-850-961-41	Sequence 41, Appl
554	12.4	62.0	26	3	US-08-757-024-740	Sequence 740, Appl	c 627	12	60.0	49	4	US-08-850-961-41	Sequence 41, Appl
555	12.4	62.0	27	3	US-08-757-024-739	Sequence 739, Appl	c 628	12	60.0	40	4	US-09-479-776-41	Sequence 41, Appl
556	12.4	62.0	27	4	US-08-757-024-738	Sequence 738, Appl	c 629	12	60.0	40	4	US-08-548-7608-19	Sequence 19, Appl
557	12.4	62.0	27	4	US-08-757-024-737	Sequence 737, Appl	c 630	12	60.0	43	2	US-08-761-277A-68	Sequence 68, Appl
c 558	12.2	61.0	18	4	US-09-641-648-1256	Sequence 1256, Appl	c 631	11.8	59.0	17	4	US-08-584-040-2106	Sequence 2106, Appl
c 559	12.2	61.0	18	4	US-09-115-027-2	Sequence 2, Appl	c 632	11.8	59.0	19	1	US-08-388-381-4	Sequence 4, Appl
c 560	12.2	61.0	20	4	US-09-167-109-101	Sequence 101, Appl	c 633	11.8	59.0	19	3	US-08-765-626-4	Sequence 4, Appl
561	12.2	61.0	20	4	US-09-275-505-2	Sequence 2, Appl	c 634	11.8	59.0	19	5	PCT-US95-08605-4	Sequence 4, Appl
c 562	12.2	61.0	24	1	US-08-375-116A-53	Sequence 53, Appl	c 635	11.8	59.0	21	2	US-08-206-790A-16	Sequence 16, Appl
c 563	12.2	61.0	24	3	US-08-480-640A-127	Sequence 127, Appl	c 636	11.8	59.0	21	5	PCT-US95-02944-16	Sequence 16, Appl
c 564	12.2	61.0	24	3	US-08-295-802-127	Sequence 127, Appl	c 637	11.8	59.0	23	1	US-08-281-082A-32	Sequence 32, Appl
c 565	12.2	61.0	24	4	US-08-488-247A-127	Sequence 127, Appl	c 638	11.8	59.0	24	1	US-08-281-082A-17	Sequence 17, Appl
566	12.2	61.0	24	1	US-08-375-992A-127	Sequence 54, Appl	c 639	11.8	59.0	26	4	US-08-718-324A-2	Sequence 2, Appl
567	12.2	61.0	25	1	US-08-375-116A-54	Sequence 7, Appl	c 640	11.8	59.0	26	4	US-09-587-526-2	Sequence 2, Appl
568	12.2	61.0	25	1	US-08-156-384-7	Sequence 7, Appl	c 641	11.8	59.0	28	1	US-08-340-011-16	Sequence 16, Appl
569	12.2	61.0	29	1	US-08-340-136-7	Sequence 7, Appl	c 642	11.8	59.0	28	4	US-08-901-710-16	Sequence 16, Appl
570	12.2	61.0	30	1	PCT-US92-10866-7	Sequence 7, Appl	c 643	11.8	59.0	28	4	US-08-990-823-109	Sequence 109, Appl
571	12.2	61.0	43	4	US-08-427-569-34	Sequence 34, Appl	c 644	11.8	59.0	29	4	US-08-820-825-5	Sequence 5, Appl
572	12.2	61.0	43	4	US-08-253-155A-81	Sequence 81, Appl	c 645	11.8	59.0	29	2	US-08-820-825-7	Sequence 7, Appl
573	12.2	61.0	48	1	US-08-625-209A-10	Sequence 10, Appl	c 646	11.8	59.0	29	4	US-09-307-817-7	Sequence 7, Appl
574	12.2	61.0	48	3	US-08-853-733B-10	Sequence 10, Appl	c 647	11.8	59.0	29	4	US-09-407-817-7	Sequence 7, Appl
575	12.2	61.0	49	1	US-08-444-241-5	Sequence 5, Appl	c 648	11.8	59.0	29	4	US-09-734-036-5	Sequence 5, Appl
576	12.2	61.0	49	1	US-08-152-443A-17	Sequence 17, Appl	c 649	11.8	59.0	30	2	US-08-812-003-7	Sequence 7, Appl
577	12.2	61.0	42	1	US-08-375-116A-15	Sequence 15, Appl	c 650	11.8	59.0	40	4	US-08-446-648-44	Sequence 44, Appl
578	12.2	61.0	42	1	US-08-375-116A-22	Sequence 22, Appl	c 651	11.8	59.0	42	5	PCT-US95-04228-44	Sequence 44, Appl
c 579	12.2	61.0	43	1	US-08-203-716-11	Sequence 11, Appl	c 652	11.8	59.0	43	4	US-09-206-059-47	Sequence 47, Appl
c 580	12.2	61.0	43	1	US-08-440-179-11	Sequence 11, Appl	c 653	11.8	59.0	46	4	US-09-427-700-2	Sequence 2, Appl
c 581	12.2	61.0	43	4	US-09-049-657-11	Sequence 11, Appl	c 654	11.8	59.0	49	4	US-08-653-648A-24	Sequence 24, Appl
c 582	12.2	61.0	47	4	US-09-641-648-1255	Sequence 1255, Appl	c 655	11.8	59.0	49	4	US-08-653-648A-31	Sequence 31, Appl
c 583	12.2	61.0	48	2	US-08-487-811A-23	Sequence 23, Appl	c 656	11.8	59.0	44	1	US-08-672-564-7	Sequence 7, Appl
c 584	12.2	61.0	48	4	US-09-060-694-23	Sequence 23, Appl	c 657	11.6	58.0	20	4	US-09-503-505A-6	Sequence 6, Appl
585	12.2	61.0	50	1	US-08-384-708A-142	Sequence 142, Appl	c 658	11.6	58.0	24	2	US-08-474-450A-47	Sequence 47, Appl
586	12.2	61.0	50	4	US-08-687-421-142	Sequence 142, Appl	c 659	11.6	58.0	24	2	US-08-859-998-776	Sequence 776, Appl
587	12.2	60.0	12	3	US-08-757-024-717	Sequence 717, Appl	c 660	11.6	58.0	24	4	US-08-983-466-68	Sequence 68, Appl
588	12.2	60.0	13	3	US-08-757-024-746	Sequence 736, Appl	c 661	11.6	58.0	24	4	US-09-225-928-776	Sequence 776, Appl
589	12.2	60.0	13	3	US-08-757-024-696	Sequence 696, Appl	c 662	11.6	58.0	25	1	US-08-253-575-8	Sequence 8, Appl
590	12.2	60.0	13	3	US-08-757-024-745	Sequence 745, Appl	c 663	11.6	58.0	26	4	US-09-307-265A-7	Sequence 7, Appl
591	12.2	60.0	14	3	US-08-757-024-674	Sequence 674, Appl	c 664	11.6	58.0	27	2	US-08-859-998-1226	Sequence 1226, Appl
592	12.2	60.0	15	4	US-08-757-024-651	Sequence 651, Appl	c 665	11.6	58.0	27	4	US-09-225-928-1226	Sequence 1226, Appl
593	12.2	60.0	16	4	US-08-757-024-627	Sequence 627, Appl	c 666	11.6	58.0	28	1	US-08-543-630-4	Sequence 4, Appl
594	12.2	60.0	16	4	US-09-380-662-14	Sequence 14, Appl	c 667	11.6	58.0	33	3	US-08-650-726-1	Sequence 1, Appl
c 595	12.2	60.0	17	1	US-08-758-306-923	Sequence 923, Appl	c 668	11.6	58.0	43	4	US-09-450-072-12	Sequence 12, Appl
c 596	12.2	60.0	17	3	US-08-757-024-602	Sequence 602, Appl	c 669	11.6	58.0	43	4	US-09-351-448-12	Sequence 12, Appl
598	12.2	60.0	18	3	US-08-757-024-576	Sequence 576, Appl	c 670	11.6	58.0	44	4	US-09-450-072-31	Sequence 31, Appl
599	12.2	60.0	19	3	US-08-757-024-549	Sequence 549, Appl	c 671	11.6	58.0	44	4	US-09-451-348-31	Sequence 31, Appl
600	12.2	60.0	20	3	US-08-757-024-521	Sequence 521, Appl	c 672	11.6	58.0	45	4	US-09-053-374A-9	Sequence 9, Appl
601	12.2	60.0	21	3	US-08-757-024-492	Sequence 492, Appl	c 673	11.6	58.0	36	1	US-08-423-399B-25	Sequence 25, Appl
602	12.2	60.0	22	3	US-08-757-024-462	Sequence 462, Appl	c 674	11.6	58.0	36	2	US-08-834-964-7	Sequence 7, Appl
603	12.2	60.0	23	2	US-08-823-516-40	Sequence 100, Appl	c 675	11.6	58.0	37	4	US-09-450-072-53	Sequence 53, Appl
604	12.2	60.0	23	3	US-08-757-024-431	Sequence 431, Appl	c 676	11.6	58.0	47	4	US-09-451-348-53	Sequence 53, Appl
605	12.2	60.0	23	3	US-08-759-048-88	Sequence 88, Appl	c 677	11.6	58.0	39	4	US-09-439-261-47	Sequence 47, Appl
606	12.2	60.0	23	3	US-08-758-314-88	Sequence 88, Appl	c 678	11.6	58.0	40	1	US-08-390-878-2	Sequence 2, Appl
607	12.2	60.0	24	3	US-08-757-024-399	Sequence 399, Appl	c 679	11.6	58.0	40	4	US-09-546-483-1	Sequence 1, Appl
608	12.2	60.0	25	3	US-08-757-024-366	Sequence 366, Appl	c 680	11.6	58.0	40	4	US-09-823-177-1	Sequence 1, Appl
609	12.2	60.0	26	3	US-08-757-024-342	Sequence 342, Appl	c 681	11.6	58.0	44	1	US-08-452-164A-45	Sequence 45, Appl
610	12.2	60.0	27	3	US-08-757-024-297	Sequence 297, Appl	c 682	11.6	58.0	45	1	US-08-171-389-123	Sequence 123, Appl
611	12.2	60.0	28	3	US-08-757-024-261	Sequence 261, Appl	c 683	11.6	58.0	45	1	US-08-124-936-123	Sequence 123, Appl

685	11.6	58.0	45	2	US 08 475-228A-124	Sequence 124, App	758	11.2	56.0	24	Z	US 08 477 890 1	Sequence 1, Appl
686	11.6	58.0	45	3	US 08 482-080A-124	Sequence 124, App	c 759	11.2	56.0	24	2	US 08 462 646 18	Sequence 18, Appl
687	11.6	58.0	45	4	US 09 454-947-124	Sequence 124, App	760	11.2	56.0	24	2	US 08 462 646 98	Sequence 98, Appl
688	11.6	58.0	45	5	19CT-US93-12488-124	Sequence 124, App	c 761	11.2	56.0	24	2	US 08 462 646 145	Sequence 145, Appl
c 689	11.6	58.0	47	4	US 09 641-638-1247	Sequence 1247, App	762	11.2	56.0	24	2	US 08 462 646 149	Sequence 149, Appl
690	11.6	58.0	50	1	US 08 171-489 114	Sequence 114, App	763	11.2	56.0	24	2	US 08 249 0376 16	Sequence 16, Appl
c 691	11.6	58.0	50	1	US 08 324-001-11	Sequence 10, Appl	764	11.2	56.0	24	2	US 08 788 62248 16	Sequence 16, Appl
692	11.6	58.0	50	1	US 08 324-001-11	Sequence 11, Appl	765	11.2	56.0	24	2	US 08 467 034A 1	Sequence 1, Appl
693	11.6	58.0	50	1	US 08 123-936-114	Sequence 114, App	766	11.2	56.0	24	3	US 08 788 62218 16	Sequence 16, Appl
694	11.6	58.0	50	2	US 08 475-228A-114	Sequence 114, App	767	11.2	56.0	24	4	US 08 468 646A-1	Sequence 1, Appl
695	11.6	58.0	50	3	US 08 482-080A-114	Sequence 114, App	c 768	11.2	56.0	24	4	US 09 013 406 18	Sequence 18, Appl
696	11.6	58.0	50	4	US 09 454-947-114	Sequence 114, App	769	11.2	56.0	24	4	US 09 013 406 98	Sequence 98, Appl
697	11.6	58.0	50	5	19CT-US93-12488-114	Sequence 114, App	c 770	11.2	56.0	24	4	US 09 013 406 135	Sequence 135, Appl
698	11.4	57.0	13	3	US 08 757-024-754	Sequence 754, App	771	11.2	56.0	24	4	US 09 013 406-139	Sequence 139, Appl
699	11.4	57.0	14	3	US 08 757-024-770	Sequence 770, App	c 772	11.2	56.0	24	5	19CT-US95 03602-8	Sequence 8, Appl
700	11.4	57.0	14	3	US 08 757-024-769	Sequence 769, App	773	11.2	56.0	25	1	US 08 281 082A 44	Sequence 44, Appl
701	11.4	57.0	15	3	US 08 757-024-768	Sequence 768, App	c 774	11.2	56.0	25	1	US 08 434 565 31	Sequence 31, Appl
702	11.4	57.0	16	3	US 08 757-024-767	Sequence 767, App	775	11.2	56.0	25	1	US 08 495 743 64	Sequence 64, Appl
703	11.4	57.0	17	3	US 08 757-024-766	Sequence 766, App	776	11.2	56.0	25	1	US 08 495-749-64	Sequence 64, Appl
c 704	11.4	57.0	17	4	US 08 584-040-2105	Sequence 2105, App	777	11.2	56.0	25	1	US 08 495 741 64	Sequence 64, Appl
705	11.4	57.0	18	3	US 08 757-024-765	Sequence 765, App	c 778	11.2	56.0	25	2	US 08 661 479 31	Sequence 31, Appl
706	11.4	57.0	19	3	US 08 757-024-764	Sequence 764, App	779	11.2	56.0	25	4	US 08 062 024 64	Sequence 64, Appl
707	11.4	57.0	20	3	US 08 757-024-763	Sequence 763, App	c 780	11.2	56.0	25	4	US 08 957 621-2	Sequence 2, Appl
708	11.4	57.0	21	3	US 08 765-340-24	Sequence 24, Appl	781	11.2	56.0	26	1	US 08 281 082A 44	Sequence 44, Appl
709	11.4	57.0	22	3	US 08 757-024-762	Sequence 762, App	782	11.2	56.0	26	1	US 08 281 082A-45	Sequence 45, Appl
710	11.4	57.0	23	2	US 08 757-024-761	Sequence 761, App	783	11.2	56.0	26	3	US 07 808 452 19	Sequence 19, Appl
711	11.4	57.0	23	2	US 08 823-516-102	Sequence 102, App	784	11.2	56.0	26	5	19CT-US92 10770-19	Sequence 19, Appl
712	11.4	57.0	23	3	US 08 757-024-760	Sequence 760, App	785	11.2	56.0	26	5	19CT-US92 10792 17	Sequence 17, Appl
713	11.4	57.0	23	3	US 08 759-038-85	Sequence 85, Appl	c 786	11.2	56.0	27	1	US 08 150 341 40	Sequence 40, Appl
714	11.4	57.0	23	3	US 08 758-314 85	Sequence 85, Appl	787	11.2	56.0	27	2	US 08 467 034A-6	Sequence 6, Appl
715	11.4	57.0	24	3	US 08 763-312-5	Sequence 5, Appl	788	11.2	56.0	27	4	US 08 468 646A	Sequence 6, Appl
716	11.4	57.0	24	3	US 08 757-024-759	Sequence 759, App	789	11.2	56.0	27	4	US 09 409-648 14	Sequence 14, Appl
717	11.4	57.0	25	3	US 08 757-024-758	Sequence 758, App	c 790	11.2	56.0	28	2	US 08 477 890-2	Sequence 2, Appl
718	11.4	57.0	26	3	US 08 757-024-757	Sequence 757, App	c 791	11.2	56.0	28	2	US 08 467 034A 2	Sequence 2, Appl
719	11.4	57.0	26	3	US 08 757-024-945	Sequence 945, App	c 792	11.2	56.0	28	4	US 08 468 646A 2	Sequence 2, Appl
c 720	11.4	57.0	26	4	US 08 765-340-3	Sequence 3, Appl	c 793	11.2	56.0	29	1	US 08 233 030 3	Sequence 3, Appl
721	11.4	57.0	26	4	US 09 283-144-7	Sequence 7, Appl	794	11.2	56.0	29	3	US 07 808 452 10	Sequence 10, Appl
722	11.4	57.0	29	1	US 08 349-696-13	Sequence 13, Appl	795	11.2	56.0	29	5	19CT-US92 10770 10	Sequence 10, Appl
c 723	11.4	57.0	29	1	US 08 233-009-13	Sequence 13, Appl	796	11.2	56.0	29	5	19CT-US92 10792 8	Sequence 8, Appl
724	11.4	57.0	29	1	US 08 560 231-13	Sequence 13, Appl	797	11.2	56.0	30	1	US 08 599 5808 11	Sequence 11, Appl
c 725	11.4	57.0	29	4	US 09 080-704A-13	Sequence 13, Appl	c 798	11.2	56.0	30	3	US 08 379 452 5	Sequence 5, Appl
c 726	11.4	57.0	30	2	US 08 808 550-19	Sequence 19, Appl	799	11.2	56.0	30	3	US 08 557 210A 25	Sequence 25, Appl
c 727	11.4	57.0	32	1	US 07 832-9048 45	Sequence 45, Appl	c 800	11.2	56.0	30	3	US 09 409 670 5	Sequence 5, Appl
c 728	11.4	57.0	32	1	US 08 656-948A 48	Sequence 48, Appl	c 801	11.2	56.0	30	4	US 09 199 290 18	Sequence 18, Appl
c 729	11.4	57.0	32	2	US 08 700-757-45	Sequence 45, Appl	802	11.2	56.0	30	4	US 09 651 656 69	Sequence 69, Appl
730	11.4	57.0	34	1	US 08 102-567-13	Sequence 13, Appl	803	11.2	56.0	30	4	US 09 651 656 79	Sequence 79, Appl
731	11.4	57.0	34	3	US 08 462-947 13	Sequence 13, Appl	804	11.2	56.0	30	4	US 09 650 855 69	Sequence 69, Appl
732	11.4	57.0	42	1	US 08 375-116A-5	Sequence 5, Appl	805	11.2	56.0	30	4	US 09 650 855 79	Sequence 79, Appl
733	11.4	57.0	42	1	US 08 375-116A-12	Sequence 12, Appl	806	11.2	56.0	33	2	US 08 353 476 18	Sequence 18, Appl
c 734	11.4	57.0	46	4	US 09 390-867A-39	Sequence 39, Appl	807	11.2	56.0	35	2	US 08 663 566A 26	Sequence 26, Appl
c 735	11.4	57.0	46	4	US 09 548-260-49	Sequence 49, Appl	808	11.2	56.0	35	2	US 08 023 610 26	Sequence 26, Appl
736	11.4	57.0	47	4	US 09 641-638-1104	Sequence 1104, App	809	11.2	56.0	35	2	US 08 288 065A 26	Sequence 26, Appl
c 737	11.2	56.0	18	1	US 07 741-940-39	Sequence 39, Appl	810	11.2	56.0	35	2	US 08 562 240A 26	Sequence 26, Appl
c 738	11.2	56.0	18	1	US 08 289 548A-39	Sequence 39, Appl	c 811	11.2	56.0	35	4	US 09 055 765 16	Sequence 16, Appl
c 739	11.2	56.0	18	1	US 08 452-654-39	Sequence 39, Appl	c 812	11.2	56.0	35	4	US 09 415 784 114	Sequence 114, App
c 740	11.2	56.0	18	1	US 08 452-655H-39	Sequence 39, Appl	c 813	11.2	56.0	35	4	US 09 415 785A 114	Sequence 114, App
c 741	11.2	56.0	18	3	US 08 450-582-39	Sequence 39, Appl	c 814	11.2	56.0	35	4	US 08 944-465 114	Sequence 114, App
742	11.2	56.0	18	3	US 08 863-813A-61	Sequence 61, Appl	c 815	11.2	56.0	35	4	US 09 415 868 114	Sequence 114, App
c 743	11.2	56.0	18	4	US 08 449-731-39	Sequence 39, Appl	c 816	11.2	56.0	35	4	US 09 415 900 114	Sequence 114, App
c 744	11.2	56.0	20	4	US 09 226-012-42	Sequence 42, Appl	817	11.2	56.0	35	5	19CT-US95 10245 26	Sequence 26, Appl
c 745	11.2	56.0	20	4	US 09 166-448-19	Sequence 19, Appl	818	11.2	56.0	36	2	US 08 488 402A 46	Sequence 46, Appl
746	11.2	56.0	20	4	US 09 851-520 19	Sequence 19, Appl	819	11.2	56.0	36	2	US 08 484 552A 44	Sequence 44, Appl
c 747	11.2	56.0	20	4	US 09 697-884-19	Sequence 19, Appl	820	11.2	56.0	36	5	19CT-US96 09472 34	Sequence 34, Appl
c 748	11.2	56.0	20	4	US 09 517-467B-219	Sequence 219, App	821	11.2	56.0	38	1	US 08 530 492 19	Sequence 19, Appl
749	11.2	56.0	21	2	US 08 532-751-2	Sequence 2, Appl	822	11.2	56.0	38	1	US 08 445 050 13	Sequence 13, App
750	11.2	56.0	21	2	US 08 532-751-6	Sequence 6, Appl	823	11.2	56.0	38	1	US 08 204 691 13	Sequence 13, Appl
751	11.2	56.0	24	1	US 08 281-082A-11	Sequence 11, Appl	824	11.2	56.0	38	3	US 08 863 813A 49	Sequence 49, Appl
752	11.2	56.0	24	1	US 08 408-656 8	Sequence 8, Appl	c 825	11.2	56.0	38	4	US 08 906 517 19	Sequence 19, Appl
c 753	11.2	56.0	24	1	US 08 479-852 18	Sequence 18, Appl	c 826	11.2	56.0	39	4	US 09 208 966 26	Sequence 26, Appl
754	11.2	56.0	24	1	US 08 479-852-98	Sequence 98, Appl	c 827	11.2	56.0	39	4	US 09 428 589 3	Sequence 3, Appl
c 755	11.2	56.0	24	1	US 08 479-852 135	Sequence 135, App	828	11.2	56.0	40	1	US 08 199 507B 45	Sequence 45, Appl
c 756	11.2	56.0	24	1	US 08 479-852 135	Sequence 135, App	829	11.2	56.0	40	1	US 08 041 826 45	Sequence 45, Appl
757	11.2	56.0	24	1	US 08 479-852 139	Sequence 139, App	c 830	11.2	56.0	42	2	US 08 989 594 17	Sequence 17, Appl

c 831	11-2	56,0	42	4	US-09-271-465-17	Sequence 17, Appl	c 904	11	56,0	26	4	US-09-241-818-48	Sequence 48, Appl
c 832	11-2	56,0	42	4	US-09-079-964A-5	Sequence 5, Appl	c 905	11	56,0	26	5	PCT-US94-08429-1	Sequence 1, Appl
c 833	11-2	56,0	42	4	US-09-604-014A-17	Sequence 17, Appl	c 906	11	56,0	27	1	US-08-405-699-19	Sequence 19, Appl
c 834	11-2	56,0	43	2	US-08-989-394-13	Sequence 13, Appl	c 907	11	56,0	27	1	US-08-405-699-21	Sequence 21, Appl
c 835	11-2	56,0	43	4	US-09-271-465-13	Sequence 13, Appl	c 908	11	56,0	27	2	US-08-745-609-7	Sequence 7, Appl
c 836	11-2	56,0	43	4	US-09-604-014A-13	Sequence 13, Appl	c 909	11	56,0	27	2	US-08-745-609-7	Sequence 7, Appl
c 837	11-2	56,0	45	2	US-08-353-476-31	Sequence 31, Appl	c 910	11	56,0	27	3	US-08-757-024-262	Sequence 262, Appl
c 838	11-2	56,0	45	3	US-08-863-814A-56	Sequence 56, Appl	c 911	11	56,0	27	3	US-09-315-372-7	Sequence 7, Appl
c 839	11-2	56,0	45	4	US-08-569-147-31	Sequence 31, Appl	c 912	11	56,0	27	3	US-09-244-752-7	Sequence 7, Appl
c 840	11-2	56,0	45	4	US-08-976-184A-26	Sequence 26, Appl	c 913	11	56,0	27	3	US-09-244-752-7	Sequence 7, Appl
c 841	11-2	56,0	47	4	US-09-641-648-673	Sequence 673, App	c 914	11	56,0	27	4	US-09-562-919-7	Sequence 7, Appl
c 842	11-2	56,0	47	4	US-09-641-648-680	Sequence 680, App	c 915	11	56,0	28	3	US-08-757-024-225	Sequence 225, App
c 843	11-2	56,0	48	4	US-09-651-656-71	Sequence 71, Appl	c 916	11	56,0	29	2	US-08-670-175-4	Sequence 4, Appl
c 844	11-2	56,0	48	4	US-09-650-855-16	Sequence 16, Appl	c 917	11	56,0	29	3	US-08-757-024-187	Sequence 187, App
c 845	11-2	56,0	49	2	US-08-989-394-17	Sequence 17, Appl	c 918	11	56,0	29	4	US-09-400-622-3	Sequence 3, Appl
c 846	11-2	56,0	49	2	US-08-989-394-22	Sequence 22, Appl	c 919	11	56,0	30	1	US-08-467-126-1	Sequence 1, Appl
c 847	11-2	56,0	49	4	US-09-271-465-16	Sequence 16, Appl	c 920	11	56,0	30	1	US-08-467-126-6	Sequence 6, Appl
c 848	11-2	56,0	49	4	US-09-271-465-22	Sequence 22, Appl	c 921	11	56,0	30	2	US-08-476-712-3	Sequence 3, Appl
c 849	11-2	56,0	49	4	US-09-604-014A-16	Sequence 16, Appl	c 922	11	56,0	30	2	US-08-476-712-5	Sequence 5, Appl
c 850	11-2	56,0	49	4	US-09-604-014A-22	Sequence 22, Appl	c 923	11	56,0	30	3	US-08-757-024-148	Sequence 148, App
c 851	11-2	56,0	50	1	US-07-969-931-20	Sequence 20, Appl	c 924	11	56,0	30	3	US-09-405-267-16	Sequence 16, Appl
c 852	11-2	56,0	50	1	US-07-855-417A-20	Sequence 20, Appl	c 925	11	56,0	30	4	US-08-974-549A-607	Sequence 607, App
c 853	11-2	56,0	50	2	US-08-989-394-12	Sequence 12, Appl	c 926	11	56,0	30	4	US-09-411-291-3	Sequence 3, Appl
c 854	11-2	56,0	50	3	US-08-463-903-42	Sequence 42, Appl	c 927	11	56,0	30	4	US-09-411-291-5	Sequence 5, Appl
c 855	11-2	56,0	50	4	US-09-271-465-12	Sequence 12, Appl	c 928	11	56,0	30	4	US-09-052-919-5	Sequence 5, Appl
c 856	11-2	56,0	50	4	US-09-199-290-23	Sequence 23, Appl	c 929	11	56,0	31	1	US-08-145-704-13	Sequence 13, Appl
c 857	11-2	56,0	50	4	US-09-298-886-19	Sequence 19, Appl	c 930	11	56,0	31	1	US-08-467-126-4	Sequence 4, Appl
c 858	11-2	56,0	50	4	US-07-935-695-42	Sequence 42, Appl	c 941	11	56,0	31	3	US-08-757-024-108	Sequence 108, App
c 859	11-2	56,0	50	4	US-09-604-014A-12	Sequence 12, Appl	c 942	11	56,0	31	3	US-08-947-574-13	Sequence 13, Appl
c 860	11-2	56,0	50	5	PCT-US95-13975-59	Sequence 59, Appl	c 943	11	56,0	31	4	US-08-535-168-13	Sequence 13, Appl
c 861	11	55,0	11	3	US-08-757-024-718	Sequence 718, App	c 944	11	56,0	31	4	US-09-017-974-13	Sequence 13, Appl
c 862	11	55,0	11	3	US-08-757-024-737	Sequence 737, App	c 945	11	56,0	31	4	US-08-682-256A-13	Sequence 13, Appl
c 863	11	55,0	11	3	US-08-757-024-755	Sequence 755, App	c 946	11	56,0	31	4	US-09-429-130-13	Sequence 13, Appl
c 864	11	55,0	12	3	US-08-757-024-697	Sequence 697, App	c 947	11	56,0	31	5	PCT-US96-11786-13	Sequence 13, Appl
c 865	11	55,0	12	3	US-08-757-024-754	Sequence 754, App	c 948	11	56,0	32	1	US-08-145-511-1	Sequence 1, Appl
c 866	11	55,0	13	3	US-08-757-024-675	Sequence 675, App	c 949	11	56,0	32	1	US-08-464-342-21	Sequence 21, Appl
c 867	11	55,0	14	3	US-08-757-024-652	Sequence 652, App	c 940	11	56,0	32	1	US-08-187-453-1	Sequence 1, Appl
c 868	11	55,0	15	1	US-08-580-242-5	Sequence 5, Appl	c 941	11	56,0	32	2	US-08-464-604A-24	Sequence 24, Appl
c 869	11	55,0	15	3	US-08-757-024-628	Sequence 628, App	c 942	11	56,0	32	2	US-08-875-272-21	Sequence 21, Appl
c 870	11	55,0	16	3	US-08-757-024-603	Sequence 603, App	c 943	11	56,0	32	2	US-08-903-496-21	Sequence 21, Appl
c 871	11	55,0	17	3	US-08-757-024-577	Sequence 577, App	c 944	11	56,0	32	2	US-08-757-024-67	Sequence 67, Appl
c 872	11	55,0	18	3	US-08-757-024-550	Sequence 550, App	c 945	11	56,0	32	3	US-08-986-331-6	Sequence 6, Appl
c 873	11	55,0	19	1	US-08-476-362A-6	Sequence 6, Appl	c 946	11	56,0	32	5	US-08-462-509B-11	Sequence 11, Appl
c 874	11	55,0	19	3	US-08-757-024-522	Sequence 522, App	c 947	11	56,0	32	5	PCT-US95-05616-11	Sequence 11, Appl
c 875	11	55,0	20	1	US-08-104-073-7	Sequence 7, Appl	c 948	11	56,0	33	1	US-08-464-342-15	Sequence 15, Appl
c 876	11	55,0	20	1	US-08-487-141B-17	Sequence 17, Appl	c 949	11	56,0	33	1	US-08-634-060-52	Sequence 52, Appl
c 877	11	55,0	20	2	US-08-927-561-17	Sequence 17, Appl	c 950	11	56,0	33	2	US-08-464-604A-18	Sequence 18, Appl
c 878	11	55,0	20	3	US-08-757-024-493	Sequence 493, App	c 951	11	56,0	33	2	US-08-875-272-15	Sequence 15, Appl
c 879	11	55,0	20	3	US-09-049-020-4	Sequence 49, App	c 952	11	56,0	33	2	US-08-903-496-15	Sequence 15, Appl
c 880	11	55,0	20	4	US-09-517-584A-60	Sequence 60, Appl	c 953	11	56,0	33	3	US-08-757-024-25	Sequence 25, Appl
c 881	11	55,0	20	4	US-09-115-027-3	Sequence 3, Appl	c 954	11	56,0	33	4	US-08-986-049-2	Sequence 2, Appl
c 882	11	55,0	20	4	US-09-303-586-23	Sequence 23, Appl	c 955	11	56,0	33	4	US-08-169-715-42	Sequence 42, Appl
c 883	11	55,0	20	5	PCT-US96-09388-17	Sequence 17, Appl	c 956	11	56,0	35	1	US-08-087-772A-11	Sequence 11, Appl
c 884	11	55,0	21	1	US-07-952-442-3	Sequence 3, Appl	c 957	11	56,0	36	3	US-08-833-167-14	Sequence 14, Appl
c 885	11	55,0	21	1	US-08-269-766-3	Sequence 3, Appl	c 958	11	56,0	36	4	US-09-382-616A-26	Sequence 26, Appl
c 886	11	55,0	21	1	US-08-319-54A-3	Sequence 3, Appl	c 959	11	56,0	36	4	US-09-382-616A-28	Sequence 28, Appl
c 887	11	55,0	21	2	US-08-909-868-1	Sequence 1, Appl	c 960	11	56,0	36	4	US-09-344-847A-14	Sequence 14, Appl
c 888	11	55,0	21	2	US-08-909-868-2	Sequence 2, Appl	c 961	11	56,0	37	4	US-09-124-541-13	Sequence 13, Appl
c 889	11	55,0	21	2	US-09-092-988-3	Sequence 3, Appl	c 962	11	56,0	39	1	US-08-225-989-9	Sequence 9, Appl
c 890	11	55,0	21	3	US-08-757-024-463	Sequence 463, App	c 963	11	56,0	39	1	US-08-570-923-9	Sequence 9, Appl
c 891	11	55,0	21	3	US-09-106-216-3	Sequence 3, Appl	c 964	11	56,0	39	1	US-08-580-014-9	Sequence 9, Appl
c 892	11	55,0	21	4	US-09-429-034-3	Sequence 3, Appl	c 965	11	56,0	39	3	US-09-079-785-9	Sequence 9, Appl
c 893	11	55,0	22	3	US-08-757-024-432	Sequence 432, App	c 966	11	56,0	40	2	US-08-850-049-120	Sequence 120, App
c 894	11	55,0	23	2	US-08-747-536-15	Sequence 15, Appl	c 967	11	56,0	40	2	US-08-050-478-120	Sequence 120, App
c 895	11	55,0	23	3	US-08-757-024-400	Sequence 400, App	c 968	11	56,0	40	4	US-09-374-135-11	Sequence 11, Appl
c 896	11	55,0	24	3	US-08-729-598-7	Sequence 7, Appl	c 969	11	56,0	40	4	US-09-414-117-120	Sequence 120, App
c 897	11	55,0	24	3	US-08-757-024-367	Sequence 367, App	c 970	11	56,0	40	4	US-09-678-476-120	Sequence 120, App
c 898	11	55,0	25	1	US-08-247-946A-10	Sequence 10, Appl	c 971	11	56,0	42	1	US-08-476-866-6	Sequence 6, Appl
c 899	11	55,0	25	3	US-08-757-024-333	Sequence 333, App	c 972	11	56,0	42	2	US-08-910-733-6	Sequence 6, Appl
c 900	11	55,0	25	3	US-08-911-894-23	Sequence 23, Appl	c 973	11	56,0	42	2	US-08-910-733-6	Sequence 6, Appl
c 901	11	55,0	26	2	US-08-403-852D-48	Sequence 48, Appl	c 974	11	56,0	42	4	US-08-448-619-4	Sequence 4, Appl
c 902	11	55,0	26	3	US-08-757-024-298	Sequence 298, App	c 975	11	56,0	42	4	US-09-323-874A-24	Sequence 24, Appl
c 903	11	55,0	26	3	US-08-510-646B-40	Sequence 40, Appl	c 976	11	56,0	42	4	5182196-21	Patent No. 5182196-21

977 11 55.0 44 3 US-09-284-782-6 Sequence 6, Appl  
978 11 55.0 44 3 US-09-284-782-14 Sequence 14, Appl  
c 979 11 55.0 45 1 US-08-171-389-291 Sequence 291, App  
c 980 11 55.0 45 1 US-08-123-946-291 Sequence 291, App  
c 981 11 55.0 45 2 US-08-475-228A-291 Sequence 291, App  
c 982 11 55.0 45 3 US-08-482-080A-291 Sequence 291, App  
c 983 11 55.0 45 5 PCT-US93-12388-291 Sequence 291, App  
c 984 11 55.0 46 4 US-09-590-867A-49 Sequence 49, Appl  
c 985 11 55.0 46 4 US-09-548-260-49 Sequence 49, Appl  
c 986 11 55.0 47 4 US-09-641-648-1298 Sequence 1298, Ap  
c 987 11 55.0 48 1 US-08-634-060-49 Sequence 49, Appl  
c 988 11 55.0 48 4 US-09-518-914-23 Sequence 23, Appl  
c 989 11 55.0 50 1 US-08-171-389-374 Sequence 374, App  
c 990 11 55.0 50 1 US-08-171-389-374 Sequence 374, App  
c 991 11 55.0 50 1 US-08-171-389-374 Sequence 374, App  
c 992 11 55.0 50 1 US-08-171-389-374 Sequence 374, App  
c 993 11 55.0 50 1 US-08-123-946-474 Sequence 474, App  
c 994 11 55.0 50 1 US-08-123-946-474 Sequence 474, App  
c 995 11 55.0 50 1 US-08-123-946-474 Sequence 474, App  
c 996 11 55.0 50 2 US-08-475-228A-474 Sequence 474, App  
c 997 11 55.0 50 2 US-08-475-228A-474 Sequence 474, App  
c 998 11 55.0 50 2 US-08-475-228A-474 Sequence 474, App  
c 999 11 55.0 50 3 US-08-482-080A-474 Sequence 474, App  
c1000 11 55.0 50 3 US-08-482-080A-474 Sequence 474, App

ALIGNMENTS

RESULT 1  
US 08 241 472 7/c  
: Sequence 1, Application US/08241472  
: Patent No. 5641247  
: GENERAL INFORMATION:  
: APPLICANT: Kureha, Yasutami  
: TITLE OF INVENTION: METHOD FOR IN VIVO DELIVERY OF  
: NUMBER OF INVENTION: THERAPEUTIC AGENTS VIA LIPIDOMES  
: NUMBER OF SEQUENCES: 34  
: CORRESPONDENCE ADDRESS:  
: ADDRESSEE: FLECK, HUBACH, FESL, ALBRITTON & HERRBERT  
: STREET: 4 Embarras Center, Suite 400  
: CITY: San Francisco  
: STATE: California  
: COUNTRY: USA  
: ZIP: 94111-4187  
: COMPUTER READABLE FORM:  
: MEDIUM TYPE: Floppy disk  
: OPERATING SYSTEM: PC-DOS/MS-DOS  
: SOFTWARE: Patent In Release #1.0, Version #1.25  
: CURRENT APPLICATION DATA:  
: APPLICATION NUMBER: US/08/241, 472  
: FILING DATE: 09 MAY 1994  
: CLASSIFICATION: 514  
: ATTORNEY/AGENT INFORMATION:  
: NAME: Rowland, Reiram 1  
: REGISTRATION NUMBER: 20,015  
: REFERENCE/DOCKET NUMBER: A 59079-1/BR  
: TELECOMMUNICATION INFORMATION:  
: TELEPHONE: (415) 781-1989  
: TELEX: 910 277299  
: INFORMATION FOR SEQ ID NO: 7:  
: SEQUENCE CHARACTERISTICS:  
: LENGTH: 24 base pairs  
: TYPE: nucleic acid  
: STRANDEDNESS: single  
: TOPOLOGY: linear  
: MOLECULE TYPE: cDNA  
US 08 241 472 7

Query Match 100.0% Score 20; DB 1; Length 24;

Best Local Similarity 100.0% Prod. No. 5,2;  
Matches 20; Conserved 0; Mismatches 0; Gaps 0;  
QY 1 GAGGAGGAGATGAGGAGGAGG 20  
|||||  
DB 20 GAGGAGGAGATGAGGAGGAGG 1  
|||||  
RESULT 2  
US 08 110 294A 1/c  
: Sequence 1, Application US/08110294A  
: Patent No. 5821234  
: GENERAL INFORMATION:  
: APPLICANT: Izumi, Victor J  
: TITLE OF INVENTION: Inhibition of Proliferation of Vascular  
: TITLE OF INVENTION: Smooth Muscle Cell  
: NUMBER OF SEQUENCES: 49  
: CORRESPONDENCE ADDRESS:  
: ADDRESSEE: Alltelcell & Witcoff, Ltd.  
: STREET: 10 South Wacker Dr.  
: CITY: Chicago  
: STATE: IL  
: COUNTRY: USA  
: ZIP: 60606  
: COMPUTER READABLE FORM:  
: MEDIUM TYPE: Floppy disk  
: OPERATING SYSTEM: IBM PC compatible  
: SOFTWARE: Patent In Release #1.0, Version #1.26  
: CURRENT APPLICATION DATA:  
: APPLICATION NUMBER: US/08/110, 294A  
: FILING DATE: 20 AUG 1993  
: CLASSIFICATION: 514  
: PRIOR APPLICATION DATA:  
: APPLICATION NUMBER: US 08/063,980  
: FILING DATE: 19 MAY 1993  
: PRIOR APPLICATION DATA:  
: APPLICATION NUMBER: US 07/944,882  
: FILING DATE: 10 SEP 1992  
: ATTORNEY/AGENT INFORMATION:  
: NAME: McQuinn, John J  
: REGISTRATION NUMBER: 26,949  
: REFERENCE/DOCKET NUMBER: 93,510 B  
: TELECOMMUNICATION INFORMATION:  
: TELEPHONE: 312 715,1000  
: TELEX: 312 715,1234  
: INFORMATION FOR SEQ ID NO: 1:  
: SEQUENCE CHARACTERISTICS:  
: LENGTH: 24 base pairs  
: TYPE: nucleic acid  
: STRANDEDNESS: single  
: TOPOLOGY: linear  
: MOLECULE TYPE: mRNA  
US 08 110-294A 1  
Query Match 100.0% Score 20; DB 1; Length 24;  
Best Local Similarity 100.0% Prod. No. 5,2;  
Matches 20; Conserved 0; Mismatches 0; Gaps 0;  
QY 1 GAGGAGGAGATGAGGAGGAGG 20  
|||||  
DB 20 GAGGAGGAGATGAGGAGGAGG 1  
|||||  
RESULT 3  
US 08 489 926 1/c  
: Sequence 1, Application US/08489926  
: Patent No. 5865462  
: GENERAL INFORMATION:  
: APPLICANT: Izumi, Victor J  
: TITLE OF INVENTION: Inhibition of Proliferation of Vascular  
: TITLE OF INVENTION: Smooth Muscle Cell  
: NUMBER OF SEQUENCES: 54

1 CORRESPONDENCE ADDRESS:  
 2 ADDRESSEE: Banner & Alliedright, Ltd.  
 3 STREET: 10 South Wacker Dr.  
 4 CITY: Chicago  
 5 STATE: IL  
 6 COUNTRY: USA  
 7 ZIP: 60606  
 8 COMPUTER READABLE FORM:  
 9 MEDIUM TYPE: Floppy disk  
 10 COMPUTER: IBM PC compatible  
 11 OPERATING SYSTEM: PC-DOS/MS-DOS  
 12 SOFTWARE: Patent In Release #1.0, Version #1.25  
 13 CURRENT APPLICATION DATA:  
 14 APPLICATION NUMBER: US/08/489,926  
 15 FILING DATE: 16 FEB 1995  
 16 CLASSIFICATION: 514  
 17 PRIORITY APPLICATION DATA:  
 18 APPLICATION NUMBER: US 07/944,882  
 19 FILING DATE: 10-SEP-1992  
 20 ATTORNEY/AGENT INFORMATION:  
 21 NAME: McDermott, John J.  
 22 REGISTRATION NUMBER: 26,949  
 23 REFERENCE/DOCKET NUMBER: 93,510-D  
 24 TELECOMMUNICATION INFORMATION:  
 25 TELEPHONE: 312-715-1000  
 26 TELEFAX: 312-715-1244  
 27 INFORMATION FOR SEQ ID NO: 1:  
 28 SEQUENCE CHARACTERISTICS:  
 29 LENGTH: 24 base pairs  
 30 TYPE: nucleic acid  
 31 STRANDEDNESS: single  
 32 TOPOLOGY: linear  
 33 MOLECULE TYPE: mRNA  
 34 US-08-489-926-1  
 35  
 36 Query Match: 100.0%; Score 20; DB 2; Length 24;  
 37 Best Local Similarity: 100.0%; Pred. No. 5.2;  
 38 Matches: 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
 39  
 40 QY 1 GAGGGGCGATGGGAGGC 20  
 41  
 42 Db 20 GAGGGGCGATGGGAGGC 1  
 43  
 44 RESULT 4  
 45 PCT-US95/05420-7/c  
 46 Sequence 7, Application PCT/US95/05420  
 47 GENERAL INFORMATION:  
 48 APPLICANT: Ozuo, Victor J.  
 49 APPLICANT: Kaneda, Yasuami  
 50 TITLE OF INVENTION: METHOD FOR IN VIVO DELIVERY OF  
 51 TITLE OF INVENTION: THERAPEUTIC AGENTS VIA LIPOSOMES  
 52 NUMBER OF SEQUENCES: 34  
 53 CORRESPONDENCE ADDRESS:  
 54 ADDRESSEE: FLEHR, HOBACH, TEST, ALBRITTON & HERBERT  
 55 STREET: 4 Embarcadero Center, Suite 3400  
 56 CITY: San Francisco  
 57 STATE: California  
 58 COUNTRY: USA  
 59 ZIP: 94111-4187  
 60 COMPUTER READABLE FORM:  
 61 MEDIUM TYPE: Floppy disk  
 62 COMPUTER: IBM PC compatible  
 63 OPERATING SYSTEM: PC-DOS/MS-DOS  
 64 SOFTWARE: Patent In Release #1.0, Version #1.25  
 65 CURRENT APPLICATION DATA:  
 66 APPLICATION NUMBER: PCT/US95/05420  
 67 FILING DATE: 28 APRIL 1995  
 68 CLASSIFICATION:  
 69

70 ATTORNEY/AGENT INFORMATION:  
 71 NAME: Rowland, Bertram I  
 72 REGISTRATION NUMBER: 20,015  
 73 REFERENCE/DOCKET NUMBER: PC 59079-1/HIR  
 74 TELECOMMUNICATION INFORMATION:  
 75 TELEPHONE: (415) 781-1989  
 76 TELEFAX: (415) 398-3249  
 77 TELE: 910 277299  
 78 INFORMATION FOR SEQ ID NO: 7:  
 79 SEQUENCE CHARACTERISTICS:  
 80 LENGTH: 24 base pairs  
 81 TYPE: nucleic acid  
 82 STRANDEDNESS: single  
 83 TOPOLOGY: linear  
 84 MOLECULE TYPE: cDNA  
 85 PCT-US95-05420-7  
 86  
 87 Query Match: 100.0%; Score 20; DB 5; Length 24;  
 88 Best Local Similarity: 100.0%; Pred. No. 5.2;  
 89 Matches: 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
 90  
 91 QY 1 GAGGGGCGATGGGAGGC 20  
 92  
 93 Db 20 GAGGGGCGATGGGAGGC 1  
 94  
 95 RESULT 5  
 96 PCT-US94/06341A-24/c  
 97 Sequence 24, Application PCT/US94/06341A  
 98 GENERAL INFORMATION:  
 99 APPLICANT: Fibrozyme Pharmaceuticals, Inc.  
 100 TITLE OF INVENTION: METHOD AND REAGENT FOR  
 101 TITLE OF INVENTION: TREATMENT OF FIBROSIS AND  
 102 TITLE OF INVENTION: FIBROSIS TISSUE DISEASE  
 103 NUMBER OF SEQUENCES: 67  
 104 CORRESPONDENCE ADDRESS:  
 105 ADDRESSEE: Lyon & Lyon  
 106 STREET: 611 West Sixth Street  
 107 CITY: Los Angeles  
 108 STATE: California  
 109 COUNTRY: USA  
 110 ZIP: 90017  
 111 COMPUTER READABLE FORM:  
 112 MEDIUM TYPE: 3.5" Diskette, 1.44 Mb storage  
 113 COMPUTER: IBM Compatible  
 114 OPERATING SYSTEM: IBM MS-DOS (Version 5.0)  
 115 SOFTWARE: WordPerfect (Version 5.1)  
 116 CURRENT APPLICATION DATA:  
 117 APPLICATION NUMBER: PCT/US94/06341A  
 118 FILING DATE: June 2, 1994  
 119 CLASSIFICATION:  
 120 PRIOR APPLICATION DATA:  
 121 PRIOR APPLICATION DATA: including application  
 122 PRIOR APPLICATION DATA: described below:  
 123 APPLICATION NUMBER:  
 124 FILING DATE:  
 125 ATTORNEY/AGENT INFORMATION:  
 126 NAME: Warburg, Richard J.  
 127 REGISTRATION NUMBER: 42,327  
 128 REFERENCE/DOCKET NUMBER: 202/115  
 129 TELECOMMUNICATION INFORMATION:  
 130 TELEPHONE: (214) 489-1600  
 131 TELEFAX: (214) 455-0440  
 132 TELE: 67-3510  
 133 INFORMATION FOR SEQ ID NO: 24:  
 134 SEQUENCE CHARACTERISTICS:  
 135 LENGTH: 18  
 136 TYPE: nucleic acid  
 137 STRANDEDNESS: single  
 138 TOPOLOGY: linear  
 139 MOLECULE TYPE: cDNA  
 140 PCT-US94/06341A-24  
 141  
 142 Query Match: 90.0%; Score 18; DB 5; Length 18;

Best Local Similarity 100.0%; Pred. No. 43;  
Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 4 GAGGAGGATGAGGAGG 20  
DB 18 GAGGAGGATGAGGAGG 1

## RESULT 6

US 08 860 299 1  
Sequence 1, Application US/08860299  
Patent No. 5958774  
GENERAL INFORMATION:  
APPLICANT: KLEIN, Antoinette  
APPLICANT: HATZFELD, Jacques  
TITLE OF INVENTION: Method for Gene Transfer Into Cells Activated From a  
FILE REFERENCE: KLEIN et al., 08/860,299  
CURRENT APPLICATION NUMBER: US/08/860,299  
CURRENT FILING DATE: 1998 07 10  
EARLIER APPLICATION NUMBER: FR 94/15497  
EARLIER FILING DATE: 1994 12 22  
EARLIER APPLICATION NUMBER: PCT/FR95/01691  
EARLIER FILING DATE: 1995 12 18  
NUMBER OF SEQ ID NOS: 1  
SOFTWARE: Patent In Ver. 2.0  
SEQ ID NO 1  
LENGTH: 21  
TYPE: DNA  
ORGANISM: Unknown  
FEATURE:  
OTHER INFORMATION: Description of Unknown Organism: NONE  
US-08-860 299 1

Query Match 85.0%; Score 17; DB 2; Length 21;

Best Local Similarity 100.0%; Pred. No. 82;  
Matches 17; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GAGGAGGATGAGGAGG 17  
DB 5 GAGGAGGATGAGGAGG 21

## RESULT 7

US 09 287 624 1  
Sequence 1, Application US/09287624  
Patent No. 6225044  
GENERAL INFORMATION:  
APPLICANT: KLEIN, Antoinette  
APPLICANT: HATZFELD, Jacques  
TITLE OF INVENTION: Method for Gene Transfer Into Cells Activated From a  
FILE REFERENCE: KLEIN et al., 08/860,299  
CURRENT APPLICATION NUMBER: US/09/287,624  
CURRENT FILING DATE: 1999-04 07  
EARLIER APPLICATION NUMBER: FR 94/15497  
EARLIER FILING DATE: 1994-12-22  
EARLIER APPLICATION NUMBER: PCT/FR95/01691  
EARLIER FILING DATE: 1995-12-18  
NUMBER OF SEQ ID NOS: 1  
SOFTWARE: Patent In Ver. 2.0  
SEQ ID NO 1  
LENGTH: 21  
TYPE: DNA  
ORGANISM: Unknown  
FEATURE:  
OTHER INFORMATION: Description of Unknown Organism: UNKNOWN  
US 09-287 624 1

Query Match 85.0%; Score 17; DB 4; Length 21;

Best Local Similarity 100.0%; Pred. No. 82;  
Matches 17; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GAGGAGGATGAGGAGG 17  
DB 5 GAGGAGGATGAGGAGG 21

RESULT 8  
US 08 445 050 19  
Sequence 19, Application US/08445050  
Patent No. 5764749  
GENERAL INFORMATION:  
APPLICANT: Blackbeter, Lars  
APPLICANT: Edlund, Michael  
APPLICANT: Hansson, Leif  
APPLICANT: Jonnell, Olof  
APPLICANT: Lundberg, Leif  
APPLICANT: Stromqvist, Mats  
APPLICANT: Tachell, Jan  
TITLE OF INVENTION: No. 5764749 Polypeptides  
NUMBER OF SEQUENCES: 21  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: White & Case  
STREET: 1155 Avenue of the Americas  
CITY: New York  
STATE: New York  
COUNTRY: United States  
ZIP: 10036 2787  
COMPIER REALABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPIER: IBM PC compatible  
OPERATING SYSTEM: PC DOS/MS DOS  
SOFTWARE: Patent In Ver. 1.0, Version #1.25  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/445,050  
FILING DATE:  
CLASSIFICATION: B60  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US/08/204,691  
FILING DATE:  
APPLICATION NUMBER: SE 9400686 4  
FILING DATE: 01 MAR 1994  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: SE 9400722 7  
FILING DATE: 04 MAR 1994  
ATTORNEY/AGENT INFORMATION:  
NAME: Stenert Ph.D., Richard J  
REGISTRATION NUMBER: 35,472  
REFERENCE/PATENT NUMBER: 110426 850  
BIOBIBLIOGRAPHY INFORMATION:  
TELEPHONE: (212) 819 8784  
TELEFAX: (212) 854 8114  
INFORMATION FOR SEQ ID NO: 19;  
SEQUENCE CHARACTERISTICS:  
LENGTH: 42 base pairs  
TYPE: nucleic acid  
STRANDNESS: single  
Topology: linear  
MOLECULE TYPE: DNA (genomic)  
US-08-445-050 19

Query Match 76.0%; Score 15,2; DB 1; Length 42;  
Best Local Similarity 85.0%; Pred. No. 4 2002;  
Matches 17; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

QY 1 GAGGAGGATGAGGAGG 20  
DB 8 GAGGAGGATGAGGAGG 27

## RESULT 9

US 08 204 691 19  
Sequence 19, Application US/08204691  
Patent No. 6027684  
GENERAL INFORMATION:

```

2 APPLICANT: Blackberg, Lars
2 APPLICANT: Edlund, Michael
2 APPLICANT: Hansson, Lennart
2 APPLICANT: Hornell, Olof
2 APPLICANT: Lundberg, Mats
2 APPLICANT: Stromqvist, Mats
2 APPLICANT: Toornell, Jan
2 TITLE OF INVENTION: No. 5827683ol Polypeptides
2 NUMBER OF SEQUENCES: 21
2 CORRESPONDENCE ADDRESS:
2 ADDRESSEE: White & Case
2 STREET: 1155 Avenue of the Americas
2 CITY: New York
2 STATE: New York
2 COUNTRY: United States
2 ZIP: 10036-2787
2 COMPUTER READABLE FORM:
2 MEDIUM TYPE: Floppy disk
2 COMPUTER: IBM PC compatible
2 OPERATING SYSTEM: PC-DOS/MS-DOS
2 SOFTWARE: Patent in Release #1.0, Version #1.25
2 CURRENT APPLICATION DATA:
2 APPLICATION NUMBER: US/08/204,691
2 FILING DATE:
2 CLASSIFICATION: 435
2 PRIOR APPLICATION DATA:
2 APPLICATION NUMBER: SE 9400686-4
2 FILING DATE: 01-MAR-1993
2 PRIOR APPLICATION DATA:
2 APPLICATION NUMBER: SE 9300722-7
2 FILING DATE: 04-MAR-1993
2 ATTORNEY/AGENT INFORMATION:
2 NAME: Stermor Ph.D., Richard J
2 REGISTRATION NUMBER: 35,372
2 REFERENCE/DOCKET NUMBER: 1103426-850
2 TELECOMMUNICATION INFORMATION:
2 TELEPHONE: (212)819-8783
2 TELEFAX: (212)354-8113
2 INFORMATION FOR SEQ ID NO: 19:
2 SEQUENCE CHARACTERISTICS:
2 LENGTH: 32 base pairs
2 TYPE: nucleic acid
2 STRANDEDNESS: single
2 TOPOLOGY: linear
2 MOLECULE TYPE: DNA (genomic)
2 US-08-204-691-19

```

```

Query Match 76.0%; Score 15.2; DB 1; Length 32;
Best Local Similarity 85.0%; Pred. No. 4.2e+02;
Matches 17; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

```

```

QY 1 GAGGAGGAGGATGGGAGGAG 20
Db 8 GTGGGAGGATGGGAGGAG 27

```

```

RESULT 11
US-08-445-050-14/c
Sequence 14, Application US/08445050
Patent No. 5764749
GENERAL INFORMATION:

```

```

2 APPLICANT: Blackberg, Lars
2 APPLICANT: Edlund, Michael
2 APPLICANT: Hansson, Lennart
2 APPLICANT: Hornell, Olof
2 APPLICANT: Lundberg, Mats
2 APPLICANT: Stromqvist, Jan
2 APPLICANT: Toornell, Jan
2 TITLE OF INVENTION: No. 5764749ol Polypeptides
2 NUMBER OF SEQUENCES: 21
2 CORRESPONDENCE ADDRESS:
2 ADDRESSEE: White & Case
2 STREET: 1155 Avenue of the Americas

```

```

2 CITY: New York
2 STATE: New York
2 COUNTRY: United States
2 ZIP: 10036-2787
2 COMPUTER READABLE FORM:
2 MEDIUM TYPE: Floppy disk
2 COMPUTER: IBM PC compatible
2 OPERATING SYSTEM: PC-DOS/MS-DOS
2 SOFTWARE: Patent in Release #1.0, Version #1.25
2 CURRENT APPLICATION DATA:
2 APPLICATION NUMBER: US/08/445,050
2 FILING DATE:
2 CLASSIFICATION: B00
2 PRIOR APPLICATION DATA:
2 APPLICATION NUMBER: US/08/204,691
2 FILING DATE:
2 APPLICATION NUMBER: SE 9400686-4
2 FILING DATE: 01-MAR-1993
2 PRIOR APPLICATION DATA:
2 APPLICATION NUMBER: SE 9400722-7
2 FILING DATE: 04-MAR-1993
2 ATTORNEY/AGENT INFORMATION:
2 NAME: Stermor Ph.D., Richard J
2 REGISTRATION NUMBER: 35,372
2 REFERENCE/DOCKET NUMBER: 1103426-850
2 TELECOMMUNICATION INFORMATION:
2 TELEPHONE: (212)819-8783
2 TELEFAX: (212)354-8113
2 INFORMATION FOR SEQ ID NO: 14:
2 SEQUENCE CHARACTERISTICS:
2 LENGTH: 42 base pairs
2 TYPE: nucleic acid
2 STRANDEDNESS: single
2 TOPOLOGY: linear
2 MOLECULE TYPE: DNA (genomic)
2 US-08-445-050-14

```

```

Query Match 76.0%; Score 15.2; DB 1; Length 42;
Best Local Similarity 85.0%; Pred. No. 4.1e+02;
Matches 17; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

```

```

QY 1 GAGGAGGAGGATGGGAGGAG 20
Db 29 GTGGGAGGATGGGAGGAG 10

```

```

RESULT 11
US-08-204-691-14/c
Sequence 14, Application US/08204691
Patent No. 5827683
GENERAL INFORMATION:
2 APPLICANT: Blackberg, Lars
2 APPLICANT: Edlund, Michael
2 APPLICANT: Hansson, Lennart
2 APPLICANT: Hornell, Olof
2 APPLICANT: Lundberg, Lennart
2 APPLICANT: Stromqvist, Mats
2 APPLICANT: Toornell, Jan
2 TITLE OF INVENTION: No. 5827683ol Polypeptides
2 NUMBER OF SEQUENCES: 21
2 CORRESPONDENCE ADDRESS:
2 ADDRESSEE: White & Case
2 STREET: 1155 Avenue of the Americas
2 CITY: New York
2 STATE: New York
2 COUNTRY: United States
2 ZIP: 10036-2787
2 COMPUTER READABLE FORM:
2 MEDIUM TYPE: Floppy disk
2 COMPUTER: IBM PC compatible
2 OPERATING SYSTEM: PC-DOS/MS-DOS
2 SOFTWARE: Patent in Release #1.0, Version #1.25
2 CURRENT APPLICATION DATA:

```

```

1  APPLICATION NUMBER: US/08/204,691
2  FILING DATE:
3  CLASSIFICATION: 435
4  PRIOR APPLICATION DATA:
5  APPLICATION NUMBER: SE 9400686 4
6  FILING DATE: 01 MAR 1993
7  PRIOR APPLICATION DATA:
8  APPLICATION NUMBER: SE 9400722 7
9  FILING DATE: 04 MAR 1993
10 ATTORNEY/AGENT INFORMATION:
11 NAME: Stotter Ph.D., Richard J
12 REGISTRATION NUMBER: 45,472
13 REFERENCE/POCKET NUMBER: 1103426 850
14 TELECOMMUNICATION INFORMATION:
15 TELEPHONE: (212)919-8783
16 TELEFAX: (212)354-8114
17 INFORMATION FOR SEQ ID NO: 14:
18 LENGTH: 42 base pairs
19 TYPE: nucleic acid
20 STRANDEDNESS: single
21 TOPOLOGY: linear
22 MOLECULE TYPE: DNA (genomic)
23 US 08 204 691 14

```

```

Query Match 76.08; Score 15.2; DB 1; Length 42;
Best Local Similarity 85.08; Pred. No. 4,1002;
Matches 17; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

```

```

QY 1 GAGGGGGGATGGGGAGGC 20
10 111111111111111111
20 GTGGGGGGAGGGGGGGGC 10

```

```

RESULT 12
US 08 445 050 15/c
1 Sequence 15, Application US/08445050
2 Patent No. 5763749
3 GENERAL INFORMATION:
4 APPLICANT: Blackberrq, Lars
5 APPLICANT: Edlund, Michael
6 APPLICANT: Hansson, Leonard
7 APPLICANT: Bernell, Olo
8 APPLICANT: Lundberg, Leonard
9 APPLICANT: Stromqvist, Mats
10 TITLE OF INVENTION: No. 5763749c1 Polypeptides
11 NUMBER OF SEQUENCES: 21
12 CORRESPONDENCE ADDRESS:
13 ADDRESSEE: White & Case
14 STREET: 1155 Avenue of the Americas
15 CITY: New York
16 STATE: New York
17 COUNTRY: United States
18 ZIP: 10046-2787
19 COMPUTER READABLE FORM:
20 MEDIUM TYPE: Floppy disk
21 COMPUTER: IBM PC compatible
22 OPERATING SYSTEM: PC-DOS/MS DOS
23 SOFTWARE: Patent in Release #1.0, Version #1.25
24 CURRENT APPLICATION DATA:
25 APPLICATION NUMBER: US/08/445,050
26 FILING DATE:
27 CLASSIFICATION: 800
28 PRIOR APPLICATION DATA:
29 APPLICATION NUMBER: US/08/204,691
30 FILING DATE:
31 APPLICATION NUMBER: SE 9400686 4
32 FILING DATE: 01 MAR 1993
33 PRIOR APPLICATION DATA:
34 APPLICATION NUMBER: SE 9400722 7
35 FILING DATE: 04 MAR 1993
36 ATTORNEY/AGENT INFORMATION:

```

```

1 NAME: Stotter Ph.D., Richard J
2 REGISTRATION NUMBER: 45,472
3 REFERENCE/POCKET NUMBER: 1103426 850
4 TELECOMMUNICATION INFORMATION:
5 TELEPHONE: (212)919-8783
6 TELEFAX: (212)354-8114
7 INFORMATION FOR SEQ ID NO: 15:
8 SEQUENCE CHARACTERISTICS:
9 LENGTH: 43 base pairs
10 TYPE: nucleic acid
11 STRANDEDNESS: single
12 TOPOLOGY: linear
13 MOLECULE TYPE: DNA (genomic)
14 US 08 445 050 15

```

```

Query Match 76.08; Score 15.2; DB 1; Length 43;
Best Local Similarity 85.08; Pred. No. 4,1002;
Matches 17; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

```

```

QY 1 GAGGGGGGATGGGGAGGC 20
10 111111111111111111
20 GTGGGGGGAGGGGGGGGC 11

```

```

RESULT 13
US 08 204 691 15/c
1 Sequence 15, Application US/08204691
2 Patent No. 5827684
3 GENERAL INFORMATION:
4 APPLICANT: Blackberrq, Lars
5 APPLICANT: Edlund, Michael
6 APPLICANT: Hansson, Leonard
7 APPLICANT: Bernell, Olo
8 APPLICANT: Lundberg, Leonard
9 APPLICANT: Stromqvist, Mats
10 TITLE OF INVENTION: No. 5827684c1 Polypeptides
11 NUMBER OF SEQUENCES: 21
12 CORRESPONDENCE ADDRESS:
13 ADDRESSEE: White & Case
14 STREET: 1155 Avenue of the Americas
15 CITY: New York
16 STATE: New York
17 COUNTRY: United States
18 ZIP: 10046-2787
19 COMPUTER READABLE FORM:
20 MEDIUM TYPE: Floppy disk
21 COMPUTER: IBM PC compatible
22 OPERATING SYSTEM: PC-DOS/MS DOS
23 SOFTWARE: Patent in Release #1.0, Version #1.25
24 CURRENT APPLICATION DATA:
25 APPLICATION NUMBER: US/08/204,691
26 FILING DATE:
27 CLASSIFICATION: 435
28 PRIOR APPLICATION DATA:
29 APPLICATION NUMBER: SE 9400686 4
30 FILING DATE: 01 MAR 1993
31 PRIOR APPLICATION DATA:
32 APPLICATION NUMBER: SE 9400722 7
33 FILING DATE: 04 MAR 1993
34 ATTORNEY/AGENT INFORMATION:
35 NAME: Stotter Ph.D., Richard J
36 REGISTRATION NUMBER: 45,472
37 REFERENCE/POCKET NUMBER: 1103426 850
38 TELECOMMUNICATION INFORMATION:
39 TELEPHONE: (212)919-8783
40 TELEFAX: (212)354-8114
41 INFORMATION FOR SEQ ID NO: 15:
42 SEQUENCE CHARACTERISTICS:
43 LENGTH: 43 base pairs
44 TYPE: nucleic acid
45 STRANDEDNESS: single
46 TOPOLOGY: linear

```



```

; MOLECULE TYPE: DNA (genomic)
US-08-340-558-9/c
Query Match
Best Local Similarity 76.0%; Score 15.2; DB 1; Length 43;
Matches 17; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 1 GAGGGGCGCATGGGGAGGC 20
DB 20 GTGGGAGGCAAGGGGGGGC 1

RESULT 14
US-08-340-558-9/c
; Sequence 9, Application US/08340558
; Patent No. 5538848
; GENERAL INFORMATION:
; APPLICANT: Kenneth J. Livak, Susan J.A. Flood, Jeffery Marmaro
; TITLE OF INVENTION: Fluorescent probe for use in nucleic acid amplification assays
; NUMBER OF SEQUENCES: 12
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Stephen C. Macevitz, Perkin-Elmer Corp., Applied Biosystems Division
; STREET: 850 Lincoln Centre Drive
; CITY: Foster City
; STATE: California
; COUNTRY: USA
; ZIP: 94404
; COMPUTER READABLE FORM:
; MEDIUM TYPE: 3.5 inch diskette
; OPERATING SYSTEM: Windows 3.1/IOS 5.0
; SOFTWARE: Microsoft Word for Windows, vers. 2.0
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/340,558
; FILING DATE: 16-NOV-94
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER:
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: Stephen C. Macevitz
; REGISTRATION NUMBER: 30,285
; REFERENCE/DOCKET NUMBER: 4264
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (415) 638-5552
; TELEFAX: (415) 638-6071
; INFORMATION FOR SEQ ID NO: 9:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 26 nucleotides
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
US-08-340-558-9
Query Match
Best Local Similarity 74.0%; Score 14.8; DB 1; Length 26;
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 2 AGGGGGCATGGGGAGG 19
DB 22 AGGATGGCATGGGGAGG 5

RESULT 15
US-08-710-075-1/c
; Sequence 1, Application US/08710075
; Patent No. 5691146
; GENERAL INFORMATION:
; APPLICANT: Paul E. Mayrand
; TITLE OF INVENTION: Methods and reagents for combined PCR
; NUMBER OF SEQUENCES: 8
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Paul D. Grossman, Perkin-Elmer Corp., Applied
Biosystems Divi
```

```

; STREET: 850 Lincoln Centre Drive
; CITY: Foster City
; STATE: California
; COUNTRY: USA
; ZIP: 94404
; COMPUTER READABLE FORM:
; MEDIUM TYPE: 3.5 inch diskette
; OPERATING SYSTEM: Windows 3.10/DOS 6.20
; SOFTWARE: Microsoft Word for Windows, vers. 6.0C
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/710,075
; FILING DATE:
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/445,509
; FILING DATE: 05 MAY 1995
; ATTORNEY/AGENT INFORMATION:
; NAME: Paul D. Grossman
; REGISTRATION NUMBER: 36,547
; REFERENCE/DOCKET NUMBER: 4273D1
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (415) 638-5846
; TELEFAX: (415) 638-6071
; INFORMATION FOR SEQ ID NO: 1:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 26 nucleotides
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
US-08-710-075-1
Query Match
Best Local Similarity 74.0%; Score 14.8; DB 1; Length 26;
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 2 AGGGGGCATGGGGAGG 19
DB 22 AGGATGGCATGGGGAGG 5

RESULT 16
US-08-559-405-9/c
; Sequence 9, Application US/08559405
; Patent No. 5724591
; GENERAL INFORMATION:
; APPLICANT: Perkin-Elmer Corporation,
; APPLICANT: Applied Biosystems Division
; TITLE OF INVENTION: SELF-QUENCHING FLUORESCENCE PROBE
; TITLE OF INVENTION: AND METHOD
; NUMBER OF SEQUENCES: 14
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: David J. Weltz,
; ADDRESSEE: Haynes & Davis
; STREET: 2180 Sand Hill Road, Suite 410
; CITY: Menlo Park
; STATE: California
; COUNTRY: USA
; ZIP: 94025-6935
; COMPUTER READABLE FORM:
; MEDIUM TYPE: 3.5 inch diskette
; COMPUTER: IBM compatible
; OPERATING SYSTEM: Microsoft Windows 3.1/DOS 5.0
; SOFTWARE: Wordperfect for windows 6.0,
; SOFTWARE: ASCII (DOS) TEXT format
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/559,405
; FILING DATE:
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/440,558
; FILING DATE: 16-NOV-94
; ATTORNEY/AGENT INFORMATION:
```

```

1 NAME: David J. Weitz
2 REGISTRATION NUMBER: 48,402
3 REFERENCE/DOCKET NUMBER: PELM42641P1
4 TELECOMMUNICATION INFORMATION:
5 TELEPHONE: (415) 243-0188
6 TELEFAX: (415) 243-1129
7 INFORMATION FOR SEQ ID NO: 9:
8 SEQUENCE CHARACTERISTICS:
9 LENGTH: 26 nucleotides
10 TYPE: nucleic acid
11 STRANDEDNESS: single
12 TOPOLOGY: linear
13
14 US 08 559 405 9
15
16 Query Match 74.0% Score 14.8; DB 1; Length 26;
17 Best Local Similarity 88.9% Pref. No. 6,1e+02;
18 Matches 16; Conservation 0; Mismatches 2; Indels 0; Gaps 0;
19
20 QY 2 AGAGGAGATGGGAGG 19
21 III IIIIIIIIIII
22 22 AGATGGATGGGAGG 5
23
24 RESULT 17
25 US 08 657 989 4/c
26 Sequence 3, Application US/08657989
27 Patent No. 5736443
28 GENERAL INFORMATION:
29 APPLICANT: Lincoln J. McBride, Kenneth Livak
30 TITLE OF INVENTION: System for real time detection of nucleic acid amplification
31 NUMBER OF SEQUENCES: 3
32 CORRESPONDENCE ADDRESS:
33 ADDRESSEE: Scott R. Bortner, Perkin-Elmer, Inc.,
34 STREET: 850 Lincoln Centre Drive
35 CITY: Foster City
36 STATE: California
37 COUNTRY: USA
38 ZIP: 94044
39 COMPUTER READABLE FORM:
40 MEDIUM TYPE: 3.5 inch diskette
41 COMPUTER: IBM compatible
42 OPERATING SYSTEM: Windows 3.1/MS-DOS 5.0
43 SOFTWARE: Microsoft Word for Windows, v6.0
44 CURRENT APPLICATION DATA:
45 APPLICATION NUMBER: US/08657989
46 FILING DATE: 04-JUN-96
47 CLASSIFICATION: 436
48 PRIOR APPLICATION DATA:
49 APPLICATION NUMBER:
50 FILING DATE:
51 ATTORNEY/AGENT INFORMATION:
52 NAME: Scott R. Bortner
53 REGISTRATION NUMBER: 44,298
54 REFERENCE/DOCKET NUMBER: 4410
55 TELECOMMUNICATION INFORMATION:
56 TELEPHONE: (415) 638-6245
57 TELEFAX: (415) 638-6071
58 INFORMATION FOR SEQ ID NO: 3:
59 SEQUENCE CHARACTERISTICS:
60 LENGTH: 26 nucleotides
61 TYPE: nucleic acid
62 STRANDEDNESS: single
63 TOPOLOGY: linear
64
65 US 08 657 989 4

```

```

13
14 Query Match 74.0% Score 14.8; DB 1; Length 26;
15 Best Local Similarity 88.9% Pref. No. 6,1e+02;
16 Matches 16; Conservation 0; Mismatches 2; Indels 0; Gaps 0;
17
18 QY 2 AGAGGAGATGGGAGG 19
19 III IIIIIIIIIII
20 22 AGATGGATGGGAGG 5
21
22 RESULT 17
23 US 08 657 989 4/c
24 Sequence 3, Application US/08657989
25 Patent No. 5736443
26 GENERAL INFORMATION:
27 APPLICANT: Lincoln J. McBride, Kenneth Livak
28 TITLE OF INVENTION: System for real time detection of nucleic acid amplification
29 NUMBER OF SEQUENCES: 3
30 CORRESPONDENCE ADDRESS:
31 ADDRESSEE: Scott R. Bortner, Perkin-Elmer, Inc.,
32 STREET: 850 Lincoln Centre Drive
33 CITY: Foster City
34 STATE: California
35 COUNTRY: USA
36 ZIP: 94044
37 COMPUTER READABLE FORM:
38 MEDIUM TYPE: 3.5 inch diskette
39
40 US 08 657 989 4

```

```

13
14 RESULT 18
15 US 08 558 403 9/c
16 Sequence 3, Application US/08558403
17 Patent No. 5076940
18 GENERAL INFORMATION:
19 APPLICANT: Perkin Elmer Corporation,
20 APPLICANT: Applied Biosystems Division
21 TITLE OF INVENTION: HYBRIDIZATION ASSAY USING SELF
22 TITLE OF INVENTION: QUENCHING FLUORESCENCE PROBE
23 NUMBER OF SEQUENCES: 14
24 CORRESPONDENCE ADDRESS:
25 ADDRESSEE: David J. Weitz,
26 ADDRESSEE: Hayes & Davis,
27 STREET: 2180 Sand Hill Road, Suite 410
28 CITY: Menlo Park
29 STATE: California
30 COUNTRY: USA
31 ZIP: 94025-5045
32 COMPUTER READABLE FORM:
33 MEDIUM TYPE: 3.5 inch diskette
34 COMPUTER: IBM compatible
35 OPERATING SYSTEM: Microsoft Windows 3.1/MS-DOS 5.0
36 SOFTWARE: WordPerfect for Windows 6.0,
37 SOFTWARE: ASCII (DOS) TEXT Format
38 CURRENT APPLICATION DATA:
39 APPLICATION NUMBER: US/08558403
40 FILING DATE:
41 CLASSIFICATION: 436
42 PRIOR APPLICATION DATA:
43 APPLICATION NUMBER: 08/440,558
44 FILING DATE: 16-NOV-94
45 ATTORNEY/AGENT INFORMATION:
46 NAME: David J. Weitz
47 REGISTRATION NUMBER: 48,462
48 REFERENCE/DOCKET NUMBER: PELM42641P2
49 TELECOMMUNICATION INFORMATION:
50 TELEPHONE: (415) 243-0188
51 TELEFAX: (415) 243-1129
52 INFORMATION FOR SEQ ID NO: 9:
53 SEQUENCE CHARACTERISTICS:
54 LENGTH: 26 nucleotides
55 TYPE: nucleic acid
56 STRANDEDNESS: single
57 TOPOLOGY: linear
58 US-08-558-403-9
59
60 Query Match 74.0% Score 14.8; DB 2; Length 26;
61 Best Local Similarity 88.9% Pref. No. 6,1e+02;
62 Matches 16; Conservation 0; Mismatches 2; Indels 0; Gaps 0;
63
64 QY 2 AGAGGAGATGGGAGG 19
65 III IIIIIIIIIII
66 22 AGATGGATGGGAGG 5
67
68 RESULT 19
69 US 08 752 973 4/c
70 Sequence 3, Application US/08752973
71 Patent No. 5928907
72 GENERAL INFORMATION:
73 APPLICANT: Timothy M. Wendenburg, Kevin S. Bodner, Charles R. Connolly, Alan M.
74 TITLE OF INVENTION: System for real time detection of nucleic acid amplification
75 NUMBER OF SEQUENCES: 4
76 CORRESPONDENCE ADDRESS:
77 ADDRESSEE: Stephen C. Mueggler, Applied Biosystems, Inc.,
78 STREET: 850 Lincoln Centre Drive
79 CITY: Foster City
80 STATE: California
81 COUNTRY: USA
82 ZIP: 94044
83 COMPUTER READABLE FORM:
84 MEDIUM TYPE: 3.5 inch diskette
85
86 US 08 752 973 4

```

1 COMPUTER: IBM compatible  
2 OPERATING SYSTEM: Windows 3.1/DOS 5.0  
3 SOFTWARE: Microsoft Word for Windows, vers. 2.0  
4 CURRENT APPLICATION DATA:  
5 APPLICATION NUMBER: US/08/752,973  
6 FILING DATE: 02-09-1996  
7 CLASSIFICATION: 435  
8 PRIOR APPLICATION DATA:  
9 APPLICATION NUMBER: 08/235,411  
10 FILING DATE: 29-APR-94  
11 ATTORNEY/AGENT INFORMATION:  
12 NAME: Stephen C. Marcwicz  
13 REGISTRATION NUMBER: 30,285  
14 REFERENCE/DOCKET NUMBER: 4,241  
15 TELECOMMUNICATION INFORMATION:  
16 TELEPHONE: (415) 458-7855  
17 TELEFAX: (415) 458-7794  
18 INFORMATION FOR SEQ ID NO: 3:  
19 SEQUENCE CHARACTERISTICS:  
20 LENGTH: 26 nucleotides  
21 TYPE: nucleic acid  
22 STRANDEDNESS: single  
23 TOPOLOGY: linear  
24 US-08 752-973-3

Query Match 74.0%; Score 14.8; DB 2; Length 26;  
Best Local Similarity 88.9%; Pred. No. 6.1e+02;  
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 2 AGGAGGAGATGGGGAGG 19  
DB 22 AGGATGGATGGGGAGG 5

## RESULT 20

US-08 639-224A-6/c  
1 Sequence 6; Application US/08639224A  
2 Patent No. 5955268  
3 GENERAL INFORMATION:  
4 APPLICANT: E. N. Granados, S.R. Rouma, J.J. Carrino, N.A. Solomon  
5 TITLE OF INVENTION: METHOD AND REAGENT FOR DETECTING MULTIPLE NUCLEIC ACID SEQUEN  
6 NUMBER OF SEQUENCES: 10  
7 CORRESPONDENCE ADDRESS:  
8 ADDRESSEE: Abbott Laboratories  
9 STREET: 100 Abbott Park Road  
10 CITY: Abbott Park  
11 STATE: Illinois  
12 COUNTRY: USA  
13 ZIP: 60064-3500  
14 COMPUTER READABLE FORM:  
15 MEDIUM TYPE: Floppy disk  
16 COMPUTER: Macintosh  
17 OPERATING SYSTEM: System 7.0.1  
18 SOFTWARE: Microsoft Word 5.1a  
19 CURRENT APPLICATION DATA:  
20 APPLICATION NUMBER: US/08/639,224A  
21 FILING DATE:  
22 CLASSIFICATION: 435  
23 ATTORNEY/AGENT INFORMATION:  
24 NAME: Paul D. Yastor  
25 REGISTRATION NUMBER: 37,477  
26 REFERENCE/DOCKET NUMBER: 5949,US.01  
27 TELECOMMUNICATION INFORMATION:  
28 TELEPHONE: 708/908 4508  
29 TELEFAX: 708/908 2623  
30 TELEX:  
31 INFORMATION FOR SEQ ID NO: 6:  
32 SEQUENCE CHARACTERISTICS:  
33 LENGTH: 26 base pairs  
34 TYPE: nucleic acid  
35 STRANDEDNESS: single  
36 TOPOLOGY: linear  
37 MOLECULE TYPE: synthetic DNA

US-08 639-224A 6

Query Match 74.0%; Score 14.8; DB 2; Length 26;  
Best Local Similarity 88.9%; Pred. No. 6.1e+02;  
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 2 AGGAGGAGATGGGGAGG 19  
DB 22 AGGATGGATGGGGAGG 5

## RESULT 21

US-08 568-606-3/c  
1 Sequence 3; Application US/08568606  
2 Patent No. 5952376  
3 GENERAL INFORMATION:  
4 APPLICANT: Kausa, Robert P.  
5 APPLICANT: Wondolberg, Timothy M.  
6 APPLICANT: Maritato, Jeffrey M.  
7 TITLE OF INVENTION: Optical Tube and Method  
8 NUMBER OF SEQUENCES: 4  
9 CORRESPONDENCE ADDRESS:  
10 ADDRESSEE: Dehlinger & Associates  
11 STREET: 450 Cambridge Avenue, Suite 250  
12 CITY: Palo Alto  
13 STATE: CA  
14 COUNTRY: USA  
15 ZIP: 94306  
16 COMPUTER READABLE FORM:  
17 MEDIUM TYPE: Floppy disk  
18 COMPUTER: IBM PC compatible  
19 OPERATING SYSTEM: PC-DOS/MS-DOS  
20 SOFTWARE: Patent In Release #1.0, Version #1.25  
21 CURRENT APPLICATION DATA:  
22 APPLICATION NUMBER: US/08/568,606  
23 FILING DATE: 05-DEC-1995  
24 CLASSIFICATION: 422  
25 ATTORNEY/AGENT INFORMATION:  
26 NAME: Stratford, Carol A.  
27 REGISTRATION NUMBER: 34,444  
28 REFERENCE/DOCKET NUMBER: 0550-0052  
29 TELECOMMUNICATION INFORMATION:  
30 TELEPHONE: (415) 424-0480  
31 TELEFAX: (415) 424-0960  
32 INFORMATION FOR SEQ ID NO: 3:  
33 SEQUENCE CHARACTERISTICS:  
34 LENGTH: 26 base pairs  
35 TYPE: nucleic acid  
36 STRANDEDNESS: single  
37 TOPOLOGY: linear  
38 MOLECULE TYPE: DNA (genomic)  
39 US-08 568-606-3

Query Match 74.0%; Score 14.8; DB 2; Length 26;  
Best Local Similarity 88.9%; Pred. No. 6.1e+02;  
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 2 AGGAGGAGATGGGGAGG 19  
DB 22 AGGATGGATGGGGAGG 5

## RESULT 22

US-08 046-114-6/c  
1 Sequence 3; Application US/09046114  
2 Patent No. 6015674  
3 GENERAL INFORMATION:  
4 APPLICANT: Timothy M. Wondolberg, et al.  
5 TITLE OF INVENTION: SYSTEM FOR REAL TIME DETECTION OF NOVELIC ACID  
6 NUMBER OF SEQUENCES: 4  
7 CORRESPONDENCE ADDRESS:  
8 ADDRESSEE: David J. Weitz, Wilson Sonsini Goodrich & Rosati

```

1 STREET: 650 Page Mill Road
2 CITY: Palo Alto
3 STATE: California
4 COUNTRY: USA
5 ZIP: 94304 1990
6 COMPUTER READABLE FORM:
7 MEDIUM TYPE: 3.5 inch diskette
8 COMPUTER: IBM compatible
9 OPERATING SYSTEM: Microsoft Windows 3.1/MS 5.0
10 SOFTWARE: Wordperfect for windows 6.0,
11 SOFTWARE: ASCII (DOS) TEXT format
12 CURRENT APPLICATION DATA:
13 APPLICATION NUMBER: US/09/046,114
14 FILING DATE:
15 CLASSIFICATION:
16 PRIOR APPLICATION DATA:
17 APPLICATION NUMBER: 08/235,411
18 FILING DATE: April 29, 1994
19 PRIOR APPLICATION DATA:
20 APPLICATION NUMBER: 08/752,973
21 FILING DATE: December 2, 1996
22 ATTORNEY/AGENT INFORMATION:
23 NAME: David J. Weitz
24 REGISTRATION NUMBER: 48,462
25 REFERENCE/DOCKET NUMBER: 16642 745
26 TELECOMMUNICATION INFORMATION:
27 TELEPHONE: (650) 493 9300
28 TELEFAX: (650) 493 6811
29 INFORMATION FOR SEQ ID NO: 3:
30 SEQUENCE CHARACTERISTICS:
31 LENGTH: 26 nucleotides
32 TYPE: nucleic acid
33 STRANDEDNESS: single
34 TOPOLOGY: linear
35 US 09 046 114 3

```

```

Query Match 74.0% Score 14.8; DB 3; Length 26;
Best Local Similarity 88.9% Pred. No. 6,10002;
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

```

```

QY 2 AGAGGAGGATGGGAGG 19
111 111111111111
10b 22 AGATGGATGGGAGG 5

```

```

RESULT 24
US 09 207 170A 96
1 Sequence 9, Application US/09/07170A
2 Patent No. 6040767
3 GENERAL INFORMATION:
4 APPLICANT: Perkin Elmer Corporation
5 APPLICANT: Applied Biosystems Division
6 TITLE OF INVENTION: HYBRIDIZATION ASSAY USING SELF QUENCHING FID-RESINENCE PROBE
7 NUMBER OF SEQUENCES: 14
8 CORRESPONDENCE ADDRESS:
9 ADDRESSEE: David J. Weitz
10 ADDRESSEE: Haynes & Davis
11 STREET: 2180 Sand Hill Road, Suite 410
12 CITY: Menlo Park
13 STATE: California
14 COUNTRY: USA
15 ZIP: 94025 6945
16 COMPUTER READABLE FORM:
17 MEDIUM TYPE: 3.5 inch diskette
18 COMPUTER: IBM compatible
19 OPERATING SYSTEM: Microsoft Windows 3.1/MS 5.0
20 SOFTWARE: Wordperfect for windows 6.0,
21 SOFTWARE: ASCII (DOS) TEXT format
22 CURRENT APPLICATION DATA:
23 APPLICATION NUMBER: US/09/207,170A
24 FILING DATE:
25 CLASSIFICATION: 435
26 PRIOR APPLICATION DATA:

```

```

1 APPLICATION NUMBER: 08/440,508
2 FILING DATE: 16 NOV 94
3 ATTORNEY/AGENT INFORMATION:
4 NAME: David J. Weitz
5 REGISTRATION NUMBER: 48,462
6 REFERENCE/DOCKET NUMBER: TELM426401102
7 TELECOMMUNICATION INFORMATION:
8 TELEPHONE: (415) 233 0188
9 TELEFAX: (415) 233 1129
10 INFORMATION FOR SEQ ID NO: 9:
11 SEQUENCE CHARACTERISTICS:
12 LENGTH: 26 nucleotides
13 TYPE: nucleic acid
14 STRANDEDNESS: single
15 TOPOLOGY: linear
16 US 09 207 170A 9

```

```

Query Match 74.0% Score 14.8; DB 3; Length 26;
Best Local Similarity 88.9% Pred. No. 6,10002;
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

```

```

QY 2 AGAGGAGGATGGGAGG 19
111 111111111111
10b 22 AGATGGATGGGAGG 5

```

```

RESULT 24
US 08 869 276 2076
1 Sequence 20, Application US/08069276
2 Patent No. 6174670
3 GENERAL INFORMATION:
4 APPLICANT: Witwer, Carl L.
5 APPLICANT: Kille, Kirk M.
6 APPLICANT: Kosmussen, Randy P.
7 TITLE OF INVENTION: Monitoring Hybridization Initiated Pcl
8 NUMBER OF SEQUENCES: 27
9 CORRESPONDENCE ADDRESS:
10 ADDRESSEE: Thorpe, No. 6174670th & Westcott, L.L.P.
11 STREET: 9045 South 700 East, Suite 200
12 CITY: Sandy
13 STATE: Utah
14 COUNTRY: USA
15 ZIP: 84070
16 COMPUTER READABLE FORM:
17 MEDIUM TYPE: Diskette, 3.5 inch, 1.44 Mb storage
18 COMPUTER: Toshiba 12150TDS
19 OPERATING SYSTEM: Windows 95
20 SOFTWARE: Word Perfect 7.0
21 CURRENT APPLICATION DATA:
22 APPLICATION NUMBER: US/08/869,276
23 FILING DATE:
24 CLASSIFICATION: 435
25 PRIOR APPLICATION DATA:
26 APPLICATION NUMBER: US 08/658,994
27 FILING DATE: 04 JUN 96
28 PRIOR APPLICATION DATA:
29 APPLICATION NUMBER: US 08/818,267
30 FILING DATE: 17 MAR 97
31 ATTORNEY/AGENT INFORMATION:
32 NAME: Alan J. Howarth
33 REGISTRATION NUMBER: 46,554
34 REFERENCE/DOCKET NUMBER: 8616,0117
35 TELECOMMUNICATION INFORMATION:
36 TELEPHONE: (801) 566 6643
37 TELEFAX: (801) 566 0750
38 INFORMATION FOR SEQ ID NO: 20:
39 SEQUENCE CHARACTERISTICS:
40 LENGTH: 26 base pairs
41 TYPE: nucleic acid
42 STRANDEDNESS: single stranded
43 TOPOLOGY: linear
44 US 08 869 276 20

```

Query Match 74.0% Score 14.8; DB 4; Length 26;  
 Best Local Similarity 88.9% Pred. No. 6,1e+02;  
 Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 2 AGGAGGATGGGAGG 19  
 III IIIIIIIIIII  
 DB 22 AGGATGGATGGGAGG 5

RESULT 23  
 US-09-900-115-1-20/c  
 : Sequence 20, Application US/0963544  
 : Patent No. 6242079  
 : GENERAL INFORMATION:  
 : APPLICANT: MITTNER, Carl L.  
 : APPLICANT: Ririe, Kirk M.  
 : APPLICANT: Rasmussen, Randy P.  
 : TITLE OF INVENTION: Monitoring Hybridization during PCR  
 : NUMBER OF SEQUENCES: 27  
 : CORRESPONDENCE ADDRESS:  
 : ADDRESSEE: Thorpe, No. 6242079th & Western, L.L.P.  
 : STREET: 9035 South 700 East, Suite 200  
 : CITY: Sandy  
 : STATE: Utah  
 : COUNTRY: USA  
 : ZIP: 84070  
 : COMPUTER READABLE FORM:  
 : MEDIUM TYPE: Diskette, 3.5 inch, 1.44 Mb storage  
 : COMPUTER: Toshiba T2150PS  
 : OPERATING SYSTEM: Windows 95  
 : SOFTWARE: Word Perfect 7.0  
 : CURRENT APPLICATION DATA:  
 : APPLICATION NUMBER: US/09/645,444  
 : FILING DATE:  
 : CLASSIFICATION:  
 : PRIOR APPLICATION DATA:  
 : APPLICATION NUMBER: 08/869,276  
 : FILING DATE:  
 : PRIOR APPLICATION DATA:  
 : APPLICATION NUMBER: US 08/818,267  
 : FILING DATE: 17-MAR-97  
 : ATTORNEY/AGENT INFORMATION:  
 : NAME: Alan J. Howarth  
 : REGISTRATION NUMBER: 36,554  
 : REFERENCE/DOCKET NUMBER: 8616.CIP7  
 : TELECOMMUNICATION INFORMATION:  
 : TELEPHONE: (801)566-6633  
 : TELEFAX: (801)566-0750  
 : INFORMATION FOR SEQ ID NO: 20:  
 : SEQUENCE CHARACTERISTICS:  
 : LENGTH: 26 base pairs  
 : TYPE: nucleic acid  
 : STRANDEDNESS: single-stranded  
 : TOPOLOGY: linear  
 : US-09-900-115-1-20

Query Match 74.0% Score 14.8; DB 4; Length 26;  
 Best Local Similarity 88.9% Pred. No. 6,1e+02;  
 Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 2 AGGAGGATGGGAGG 19  
 III IIIIIIIIIII  
 DB 22 AGGATGGATGGGAGG 5

Search completed: March 18, 2003, 12:09:01  
 Job time: 31.1967 secs



GenCore version 5.1.4 p5\_4578  
copyright (c) 1993 - 2003 CompuGen Ltd.

em nucleic - nucleic search, using sw model

Run on: March 18, 2003, 10:49:51 : Search time 470.02 Seconds  
(without alignments)  
1240.261 Million cell updates/sec

Title: US-09-900-115-5

Perfect score: 20

Sequence: 1 qaacaagttcttctccatg 20

Scoring table: IDENTIFY.N02

Gapop 10.0, Gapext 1.0

Searched: 2054540 seqs, 14551402878 residues

Total number of hits satisfying chosen parameters: 841850

Minimum DB seq length: 0

Maximum hit seq length: 50

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 1000 summaries

Database :

GenBank:

1: qb\_ba:\*

2: qb\_btq:\*

3: qb\_in:\*

4: qb\_on:\*

5: qb\_ov:\*

6: qb\_pat:\*

7: qb\_ph:\*

8: qb\_pl:\*

9: qb\_pr:\*

10: qb\_ro:\*

11: qb\_sts:\*

12: qb\_sy:\*

13: qb\_un:\*

14: qb\_vi:\*

15: em\_ba:\*

16: em\_fun:\*

17: em\_hum:\*

18: em\_in:\*

19: em\_mu:\*

20: em\_on:\*

21: em\_or:\*

22: em\_ov:\*

23: em\_pat:\*

24: em\_ph:\*

25: em\_pl:\*

26: em\_ro:\*

27: em\_sts:\*

28: em\_un:\*

29: em\_vi:\*

30: em\_btq\_hum:\*

31: em\_btq\_inv:\*

32: em\_btq\_of\_her:\*

33: em\_btq\_mus:\*

34: em\_btq\_pla:\*

35: em\_btq\_rod:\*

36: em\_btq\_mam:\*

37: em\_btq\_vrt:\*

38: em\_sy:\*

39: em\_btqo\_hum:\*

40: em\_btqo\_mus:\*

41: em\_btqo\_other:\*

Prod. No. is the number of results predicted by chance to have a

score greater than or equal to the score of the result being printed,  
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	20	100.0	36	6	106215 Sequence 1
2	20	100.0	36	6	108267 Sequence 1
3	18.4	92.0	44	6	A06666 Deoxydian
4	15.8	79.0	39	6	AX018547 Sequence
5	15.8	79.0	39	6	AX018623 Sequence
6	15.8	79.0	43	6	AX443467 Sequence
7	15.8	79.0	43	6	AX443468 Sequence
8	15.8	79.0	46	6	AX018546 Sequence
9	15.8	79.0	46	6	AX018622 Sequence
10	13.8	69.0	20	6	AK12485 Sequence
11	13.8	69.0	21	6	AB3986 Sequence 7
12	13.8	69.0	21	6	AB3996 Sequence 17
13	13.4	67.0	21	6	AX391225 Sequence
14	13.4	67.0	21	6	AX399550 Sequence
15	13.4	67.0	33	6	AX391222 Sequence
16	13.4	67.0	33	6	AX399547 Sequence
17	13.4	67.0	36	6	AX391223 Sequence
18	13.4	67.0	36	6	AX399548 Sequence
19	13.4	67.0	39	6	AX391224 Sequence
20	13.4	67.0	39	6	AX399549 Sequence
21	13.2	66.0	19	6	AX131206 Sequence
22	13.2	66.0	39	6	A57893 Sequence 2
23	13.2	66.0	39	6	A79877 Sequence 2
24	13.2	66.0	39	6	AK127815 Sequence
25	13.2	66.0	48	6	190209 Sequence 35
26	12.8	64.0	27	6	AX026017 Sequence
27	12.8	64.0	29	6	FL3898 PCR primer
28	12.8	64.0	45	6	AX077050 Sequence
29	12.8	64.0	45	6	AX201411 Sequence
30	12.8	64.0	45	6	AX211601 Sequence
31	12.8	64.0	45	9	HSTHK3X22
32	12.6	63.0	20	6	AX295921 Sequence
33	12.6	63.0	24	6	AX291288 Sequence
34	12.6	63.0	25	6	AK146793 Sequence
35	12.6	63.0	26	6	FL5940 Primer 7/1
36	12.6	63.0	27	6	H0007424 Cyclic di
37	12.6	63.0	28	6	H0003100 Polyacrole
38	12.6	63.0	37	6	A17051 of human l
39	12.6	63.0	37	6	A17451 of human l
40	12.6	63.0	37	6	AK014426 Sequence
41	12.6	63.0	47	6	111869 Sequence 45
42	12.6	63.0	40	6	AK146516 Sequence
43	12.6	63.0	46	6	A17061 of human l
44	12.6	63.0	46	6	111879 Sequence 45
45	12.6	63.0	48	10	MM615RNA
46	12.6	63.0	50	6	124042 Sequence 6
47	12.4	62.0	15	6	AB9355 Sequence 16
48	12.4	62.0	24	6	AX445159 Sequence
49	12.4	62.0	27	6	AK039564 Sequence
50	12.4	62.0	27	6	F28922 Lactate deh
51	12.4	62.0	41	6	AX248363 Sequence
52	12.4	62.0	32	6	AX329347 Sequence
53	12.4	62.0	37	6	AK087990 Sequence
54	12.4	62.0	37	6	AK125637 Sequence
55	12.2	61.0	17	6	H0005422 Plant 101
56	12.2	61.0	19	6	AX131207 Sequence
57	12.2	61.0	21	6	AK202742 Sequence
58	12.2	61.0	22	6	A73757 Sequence 6
59	12.2	61.0	22	6	AK059889 Sequence
60	12.2	61.0	23	6	AK141746 Sequence
61	12.2	61.0	23	6	AK151872 Sequence
62	12.2	61.0	25	6	AX282922 Sequence
63	12.2	61.0	27	6	AX300584 Sequence
64	12.2	61.0	33	6	AK03806 Sequence
65	12.2	61.0	42	6	AK026607 Sequence

c 66	12.2	61.0	42	6	AR029105	Sequence	139	11.6	58.0	31	6	AX248910	Sequence
c 67	12.2	61.0	42	6	AR053444	Sequence	c 140	11.6	58.0	31	6	AX249441	Sequence
c 68	12.2	61.0	42	6	AR059876	Sequence	c 141	11.6	58.0	31	6	AX0090	Synthetic
c 69	12.2	61.0	42	6	AR212251	Sequence	c 142	11.6	58.0	31	6	AX179414	Sequence
c 70	12.2	61.0	42	6	AX0097	Sequence	c 143	11.6	58.0	31	6	AX05689	Human
c 71	12.2	60.0	20	6	AX007118	Sequence	c 144	11.6	58.0	31	6	AX151096	Sequence
c 72	12.2	60.0	24	6	AX289392	Sequence	c 145	11.6	58.0	31	6	AX151097	Sequence
c 73	12.2	60.0	24	6	AX445100	Sequence	c 146	11.6	58.0	31	6	AX004610	Sequence
c 74	12.2	60.0	25	6	AX010456	Sequence	c 147	11.6	58.0	31	6	AX0287	Sequence
c 75	12.2	60.0	26	6	AX010431	Sequence	c 148	11.6	58.0	31	6	AX0287	Sequence
c 76	12.2	60.0	27	6	AX00973	Novel	c 149	11.6	58.0	31	6	AX017859	Sequence
c 77	12.2	60.0	29	6	AR0095120	Sequence	c 150	11.6	58.0	31	6	AX14191	Sequence
c 78	12.2	60.0	29	6	AR009792	Transcript	c 151	11.6	58.0	31	6	AX14191	Sequence
c 79	12.2	60.0	30	6	AR0827	Sequence	c 152	11.6	58.0	31	6	AX0201021	Sequence
c 80	12.2	60.0	30	6	AX022791	Sequence	c 153	11.6	58.0	31	6	AX0201021	Sequence
c 81	12.2	60.0	30	6	AX286805	Sequence	c 154	11.6	58.0	31	6	AX0201021	Sequence
c 82	12.2	60.0	33	6	AX286805	Sequence	c 155	11.6	58.0	31	6	AX0201021	Sequence
c 83	12.2	60.0	33	6	AX286805	Sequence	c 156	11.6	58.0	31	6	AX0201021	Sequence
c 84	12.2	60.0	36	6	AR007447	Sequence	c 157	11.6	58.0	31	6	AX0201021	Sequence
c 85	12.2	60.0	36	6	AR007448	Sequence	c 158	11.6	58.0	31	6	AX0201021	Sequence
c 86	12.2	60.0	36	6	AR007449	Sequence	c 159	11.6	58.0	31	6	AX0201021	Sequence
c 87	12.2	60.0	36	6	AR007440	Sequence	c 160	11.6	58.0	31	6	AX0201021	Sequence
c 88	12.2	60.0	39	6	AX023956	Sequence	c 161	11.6	58.0	31	6	AX0201021	Sequence
c 89	12.2	60.0	39	6	AX023957	Sequence	c 162	11.6	58.0	31	6	AX0201021	Sequence
c 90	12.2	60.0	47	6	AX194948	Sequence	c 163	11.6	58.0	31	6	AX0201021	Sequence
c 91	12.2	60.0	47	6	AX194949	Sequence	c 164	11.6	58.0	31	6	AX0201021	Sequence
c 92	12.2	60.0	48	6	AX194950	Sequence	c 165	11.6	58.0	31	6	AX0201021	Sequence
c 93	12.2	60.0	48	6	AX194951	Sequence	c 166	11.6	58.0	31	6	AX0201021	Sequence
c 94	12.2	60.0	48	6	AX194952	Sequence	c 167	11.6	58.0	31	6	AX0201021	Sequence
c 95	12.2	60.0	48	6	AX194953	Sequence	c 168	11.6	58.0	31	6	AX0201021	Sequence
c 96	12.2	60.0	48	6	AX014396	Sequence	c 169	11.6	58.0	31	6	AX0201021	Sequence
c 97	12.2	60.0	48	6	AR059798	Sequence	c 170	11.6	58.0	31	6	AX0201021	Sequence
c 98	12.2	60.0	48	6	AR060205	Sequence	c 171	11.6	58.0	31	6	AX0201021	Sequence
c 99	12.2	60.0	48	6	AX11839	Sequence	c 172	11.6	58.0	31	6	AX0201021	Sequence
c 100	12.2	60.0	49	6	AR146463	Sequence	c 173	11.6	58.0	31	6	AX0201021	Sequence
c 101	12.2	60.0	50	6	AR034364	Sequence	c 174	11.6	58.0	31	6	AX0201021	Sequence
c 102	12.2	60.0	50	6	AR146464	Sequence	c 175	11.6	58.0	31	6	AX0201021	Sequence
c 103	12.2	60.0	50	6	AR209128	Sequence	c 176	11.6	58.0	31	6	AX0201021	Sequence
c 104	12.2	60.0	50	6	AR204288	Sequence	c 177	11.6	58.0	31	6	AX0201021	Sequence
c 105	12.2	60.0	50	6	AR007049	Sequence	c 178	11.6	58.0	31	6	AX0201021	Sequence
c 106	12.2	60.0	50	6	AR007049	Sequence	c 179	11.6	58.0	31	6	AX0201021	Sequence
c 107	12.2	60.0	50	6	AR007049	Sequence	c 180	11.6	58.0	31	6	AX0201021	Sequence
c 108	12.2	60.0	50	6	AR007049	Sequence	c 181	11.6	58.0	31	6	AX0201021	Sequence
c 109	12.2	60.0	50	6	AR007049	Sequence	c 182	11.6	58.0	31	6	AX0201021	Sequence
c 110	12.2	60.0	50	6	AR007049	Sequence	c 183	11.6	58.0	31	6	AX0201021	Sequence
c 111	12.2	60.0	50	6	AR007049	Sequence	c 184	11.6	58.0	31	6	AX0201021	Sequence
c 112	12.2	60.0	50	6	AR007049	Sequence	c 185	11.6	58.0	31	6	AX0201021	Sequence
c 113	12.2	60.0	50	6	AR007049	Sequence	c 186	11.6	58.0	31	6	AX0201021	Sequence
c 114	12.2	60.0	50	6	AR007049	Sequence	c 187	11.6	58.0	31	6	AX0201021	Sequence
c 115	12.2	60.0	50	6	AR007049	Sequence	c 188	11.6	58.0	31	6	AX0201021	Sequence
c 116	12.2	60.0	50	6	AR007049	Sequence	c 189	11.6	58.0	31	6	AX0201021	Sequence
c 117	12.2	60.0	50	6	AR007049	Sequence	c 190	11.6	58.0	31	6	AX0201021	Sequence
c 118	12.2	60.0	50	6	AR007049	Sequence	c 191	11.6	58.0	31	6	AX0201021	Sequence
c 119	12.2	60.0	50	6	AR007049	Sequence	c 192	11.6	58.0	31	6	AX0201021	Sequence
c 120	12.2	60.0	50	6	AR007049	Sequence	c 193	11.6	58.0	31	6	AX0201021	Sequence
c 121	12.2	60.0	50	6	AR007049	Sequence	c 194	11.6	58.0	31	6	AX0201021	Sequence
c 122	12.2	60.0	50	6	AR007049	Sequence	c 195	11.6	58.0	31	6	AX0201021	Sequence
c 123	12.2	60.0	50	6	AR007049	Sequence	c 196	11.6	58.0	31	6	AX0201021	Sequence
c 124	12.2	60.0	50	6	AR007049	Sequence	c 197	11.6	58.0	31	6	AX0201021	Sequence
c 125	12.2	60.0	50	6	AR007049	Sequence	c 198	11.6	58.0	31	6	AX0201021	Sequence
c 126	12.2	60.0	50	6	AR007049	Sequence	c 199	11.6	58.0	31	6	AX0201021	Sequence
c 127	12.2	60.0	50	6	AR007049	Sequence	c 200	11.6	58.0	31	6	AX0201021	Sequence
c 128	12.2	60.0	50	6	AR007049	Sequence	c 201	11.6	58.0	31	6	AX0201021	Sequence
c 129	12.2	60.0	50	6	AR007049	Sequence	c 202	11.6	58.0	31	6	AX0201021	Sequence
c 130	12.2	60.0	50	6	AR007049	Sequence	c 203	11.6	58.0	31	6	AX0201021	Sequence
c 131	12.2	60.0	50	6	AR007049	Sequence	c 204	11.6	58.0	31	6	AX0201021	Sequence
c 132	12.2	60.0	50	6	AR007049	Sequence	c 205	11.6	58.0	31	6	AX0201021	Sequence
c 133	12.2	60.0	50	6	AR007049	Sequence	c 206	11.6	58.0	31	6	AX0201021	Sequence
c 134	12.2	60.0	50	6	AR007049	Sequence	c 207	11.6	58.0	31	6	AX0201021	Sequence
c 135	12.2	60.0	50	6	AR007049	Sequence	c 208	11.6	58.0	31	6	AX0201021	Sequence
c 136	12.2	60.0	50	6	AR007049	Sequence	c 209	11.6	58.0	31	6	AX0201021	Sequence
c 137	12.2	60.0	50	6	AR007049	Sequence	c 210	11.6	58.0	31	6	AX0201021	Sequence
c 138	12.2	60.0	50	6	AR007049	Sequence	c 211	11.6	58.0	31	6	AX0201021	Sequence



c 212	11.2	56.0	24	6	AR124277	AR124277 Sequence	c 286	11	55.0	25	6	E07742	E07742 Primer 1/1
213	11.2	56.0	24	6	F38254	F38254 Hypothermia	c 286	11	55.0	25	6	E11708	E11708 PCR primer
214	11.2	56.0	24	6	F50831	F50831 Hypothermia	c 287	11	55.0	25	6	E12826	E12826 PCR primer
215	11.2	56.0	24	6	127403	127403 Sequence 49	c 288	11	55.0	26	6	AX378948	AX378948 Sequence
c 216	11.2	56.0	24	6	127436	127436 Sequence 72	c 289	11	55.0	27	6	AX005881	AX005881 Sequence
217	11.2	56.0	24	6	AX290708	AX290708 Sequence	c 290	11	55.0	27	6	AX181023	AX181023 Sequence
218	11.2	56.0	24	6	AX451114	AX451114 Sequence	c 291	11	55.0	27	6	AX299918	AX299918 Sequence
219	11.2	56.0	24	6	E32672	E32672 Peptide inh	c 292	11	55.0	27	6	AX428038	AX428038 Sequence
c 220	11.2	56.0	25	6	AR146793	AR146793 Sequence	c 293	11	55.0	27	6	AX428038	AX428038 Sequence
c 221	11.2	56.0	25	6	AR164911	AR164911 Sequence	c 294	11	55.0	27	6	AR1220	AR1220 T cell and i
c 222	11.2	56.0	26	6	F51052	F51052 Mismatch pr	c 295	11	55.0	28	6	AR094964	AR094964 Sequence
c 223	11.2	56.0	27	6	AR096582	AR096582 Sequence	c 296	11	55.0	28	6	AR094991	AR094991 Sequence
c 224	11.2	56.0	27	6	AR105958	AR105958 Sequence	c 297	11	55.0	28	6	AX183846	AX183846 Sequence
c 225	11.2	56.0	27	6	AR124578	AR124578 Sequence	c 298	11	55.0	29	6	AX463583	AX463583 Sequence
c 226	11.2	56.0	27	6	AX430066	AX430066 Sequence	c 299	11	55.0	29	6	AX394033	AX394033 Sequence
227	11.2	56.0	28	6	AX020878	AX020878 Sequence	c 300	11	55.0	29	6	AX394120	AX394120 Sequence
228	11.2	56.0	30	6	AR016018	AR016018 Sequence	c 301	11	55.0	30	6	AR182159	AR182159 Sequence
229	11.2	56.0	30	6	AR124315	AR124315 Sequence	c 302	11	55.0	40	6	AX234417	AX234417 Sequence
230	11.2	56.0	40	6	AR124316	AR124316 Sequence	c 303	11	55.0	40	6	AR13463	AR13463 T cell and i
231	11.2	56.0	40	6	AR124317	AR124317 Sequence	c 304	11	55.0	41	6	H0002862	H0002862 Gene comp
232	11.2	56.0	40	6	AR124318	AR124318 Sequence	c 305	11	55.0	41	6	E11709	E11709 PCR primer
233	11.2	56.0	40	6	AR124319	AR124319 Sequence	c 306	11	55.0	43	6	AR021302	AR021302 Sequence
234	11.2	56.0	40	6	AR124319	AR124319 Sequence	c 307	11	55.0	43	6	AR129345	AR129345 Sequence
235	11.2	56.0	30	6	AR124320	AR124320 Sequence	c 308	11	55.0	43	6	AR156775	AR156775 Sequence
236	11.2	56.0	30	6	AR124321	AR124321 Sequence	c 309	11	55.0	43	6	AR160100	AR160100 Sequence
237	11.2	56.0	30	6	AR124322	AR124322 Sequence	c 310	11	55.0	43	6	AR1165	AR1165 T cell and i
238	11.2	56.0	31	6	AR124314	AR124314 Sequence	c 311	11	55.0	43	6	AR1201	AR1201 T cell and i
c 239	11.2	56.0	31	6	AR195902	AR195902 Sequence	c 312	11	55.0	43	6	AR001359	AR001359 Mus muscu
240	11.2	56.0	31	6	AX043892	AX043892 Sequence	c 313	11	55.0	43	6	AR021042	AR021042 Sequence
c 241	11.2	56.0	31	6	AX060514	AX060514 Sequence	c 314	11	55.0	44	6	AR021042	AR021042 Sequence
c 242	11.2	56.0	31	6	AX247596	AX247596 Sequence	c 315	11	55.0	44	6	AR043457	AR043457 Sequence
c 243	11.2	56.0	32	6	A28021	A28021 Human prep	c 316	11	55.0	44	6	AR062372	AR062372 Sequence
244	11.2	56.0	32	6	A59436	A59436 Sequence 8	c 317	11	55.0	45	6	AR183831	AR183831 Sequence
c 245	11.2	56.0	32	6	AR009784	AR009784 Sequence	c 318	11	55.0	45	6	A29498	A29498 dequorate
c 246	11.2	56.0	32	6	AR014164	AR014164 Sequence	c 319	11	55.0	45	6	AR134964	AR134964 Sequence
247	11.2	56.0	32	6	AR124313	AR124313 Sequence	c 320	11	55.0	45	6	AR166171	AR166171 Sequence
248	11.2	56.0	33	6	AR124312	AR124312 Sequence	c 321	11	55.0	45	6	AR166179	AR166179 Sequence
249	11.2	56.0	33	6	E49665	E49665 Insect cell	c 322	11	55.0	45	6	AX001434	AX001434 Sequence
250	11.2	56.0	34	6	AR124311	AR124311 Sequence	c 323	11	55.0	45	6	E15943	E15943 Primer 7/1
c 251	11.2	56.0	34	6	AX281049	AX281049 Sequence	c 324	11	55.0	45	6	A16399	A16399 Sequence 97
c 252	11.2	56.0	34	6	AX281067	AX281067 Sequence	c 325	11	55.0	45	6	188099	188099 Sequence 97
253	11.2	56.0	35	6	AR124310	AR124310 Sequence	c 326	11	55.0	46	6	AR024357	AR024357 Sequence
254	11.2	56.0	46	6	AR124309	AR124309 Sequence	c 327	11	55.0	46	6	AR122054	AR122054 Sequence
255	11.2	56.0	47	6	AR124308	AR124308 Sequence	c 328	11	55.0	46	6	AR122876	AR122876 Sequence
256	11.2	56.0	49	6	A93085	A93085 Sequence 10	c 329	11	55.0	46	6	AR125113	AR125113 Sequence
257	11.2	56.0	40	6	AX269008	AX269008 Sequence	c 330	11	55.0	46	6	HS010876	HS010876 Homo sapi
258	11.2	56.0	41	6	AR050470	AR050470 Sequence	c 331	11	55.0	46	6	AR1208	AR1208 T cell and i
259	11.2	56.0	41	6	AR124598	AR124598 Sequence	c 332	11	55.0	46	6	HS295089	HS295089 H. sapiens m
260	11.2	56.0	42	6	A05207	A05207 glia monoclon	c 333	11	55.0	46	10	MM0299485	MM0299485 Mus muscu
261	11.2	56.0	42	6	A11704	A11704 glia monoclon	c 334	11	55.0	46	6	MMTCRHEG2	MMTCRHEG2 Sequence
262	11.2	56.0	43	6	AR141013	AR141013 Sequence	c 335	11	55.0	48	6	AR008957	AR008957 Sequence
263	11.2	56.0	43	6	AR141026	AR141026 Sequence	c 336	11	55.0	48	6	124411	124411 Sequence 6
264	11.2	56.0	43	14	188714	188714 Hepatitis G	c 337	11	55.0	49	6	AR18283	AR18283 clonomeclon
265	11.2	56.0	43	14	188754	188754 Hepatitis G	c 338	11	55.0	49	6	A59580	A59580 Sequence 8
266	11.2	56.0	46	6	A98778	A98778 Sequence 20	c 339	11	55.0	49	6	AR086054	AR086054 Sequence
c 267	11.2	56.0	47	6	A98778	A98778 Sequence 11	c 340	11	55.0	49	6	AR140408	AR140408 Sequence
268	11.2	56.0	48	6	AX055772	AX055772 Sequence	c 341	11	55.0	49	6	AR146889	AR146889 Sequence
269	11.2	56.0	48	6	AX148585	AX148585 Sequence	c 342	11	55.0	49	6	AR156781	AR156781 Sequence
c 270	11	55.0	18	6	157062	157062 Sequence 64	c 343	11	55.0	49	6	156857	156857 Sequence 4
271	11	55.0	19	6	AX131209	AX131209 Sequence	c 344	11	55.0	49	6	HS0403874	HS0403874 Homo sapi
c 272	11	55.0	19	6	AX207263	AX207263 Sequence	c 345	11	55.0	49	6	HS0403876	HS0403876 Homo sapi
c 273	11	55.0	20	6	AR160760	AR160760 Sequence	c 346	11	55.0	49	6	HS0403904	HS0403904 Homo sapi
c 274	11	55.0	20	6	AR195306	AR195306 Sequence	c 347	11	55.0	49	6	HS0403922	HS0403922 Homo sapi
275	11	55.0	20	6	AX462791	AX462791 Sequence	c 348	11	55.0	49	6	HS0403922	HS0403922 Homo sapi
276	11	55.0	21	6	AX103374	AX103374 Sequence	c 349	11	55.0	49	6	HS0403917	HS0403917 Homo sapi
c 277	11	55.0	24	6	AR089942	AR089942 Sequence	c 350	11	55.0	49	6	HS0403917	HS0403917 Homo sapi
c 278	11	55.0	24	6	AR196977	AR196977 Sequence	c 351	11	55.0	49	6	HS0403917	HS0403917 Homo sapi
c 279	11	55.0	24	6	AX003352	AX003352 Sequence	c 352	11	55.0	49	6	HS0403917	HS0403917 Homo sapi
c 280	11	55.0	24	6	AX474798	AX474798 Sequence	c 353	11	55.0	49	6	HS0403917	HS0403917 Homo sapi
c 281	11	55.0	24	6	AX454959	AX454959 Sequence	c 354	11	55.0	49	6	HS0403917	HS0403917 Homo sapi
282	11	55.0	25	6	AX326732	AX326732 Sequence	c 355	11	55.0	49	6	HS0403917	HS0403917 Homo sapi
283	11	55.0	25	6	AX326734	AX326734 Sequence	c 356	11	55.0	49	6	HS0403917	HS0403917 Homo sapi
284	11	55.0	25	6	AX326736	AX326736 Sequence	c 357	11	55.0	49	6	HS0403917	HS0403917 Homo sapi

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100	101	102	103	104	105	106	107	108	109	110	111	112	113	114	115	116	117	118	119	120	121	122	123	124	125	126	127	128	129	130	131	132	133	134	135	136	137	138	139	140	141	142	143	144	145	146	147	148	149	150	151	152	153	154	155	156	157	158	159	160	161	162	163	164	165	166	167	168	169	170	171	172	173	174	175	176	177	178	179	180	181	182	183	184	185	186	187	188	189	190	191	192	193	194	195	196	197	198	199	200	201	202	203	204	205	206	207	208	209	210	211	212	213	214	215	216	217	218	219	220	221	222	223	224	225	226	227	228	229	230	231	232	233	234	235	236	237	238	239	240	241	242	243	244	245	246	247	248	249	250	251	252	253	254	255	256	257	258	259	260	261	262	263	264	265	266	267	268	269	270	271	272	273	274	275	276	277	278	279	280	281	282	283	284	285	286	287	288	289	290	291	292	293	294	295	296	297	298	299	300	301	302	303	304	305	306	307	308	309	310	311	312	313	314	315	316	317	318	319	320	321	322	323	324	325	326	327	328	329	330	331	332	333	334	335	336	337	338	339	340	341	342	343	344	345	346	347	348	349	350	351	352	353	354	355	356	357	358	359	360	361	362	363	364	365	366	367	368	369	370	371	372	373	374	375	376	377	378	379	380	381	382	383	384	385	386	387	388	389	390	391	392	393	394	395	396	397	398	399	400	401	402	403	404	405	406	407	408	409	410	411	412	413	414	415	416	417	418	419	420	421	422	423	424	425	426	427	428	429	430	431	432	433	434	435	436	437	438	439	440	441	442	443	444	445	446	447	448	449	450	451	452	453	454	455	456	457	458	459	460	461	462	463	464	465	466	467	468	469	470	471	472	473	474	475	476	477	478	479	480	481	482	483	484	485	486	487	488	489	490	491	492	493	494	495	496	497	498	499	500	501	502	503	504	505	506	507	508	509	510	511	512	513	514	515	516	517	518	519	520	521	522	523	524	525	526	527	528	529	530	531	532	533	534	535	536	537	538	539	540	541	542	543	544	545	546	547	548	549	550	551	552	553	554	555	556	557	558	559	560	561	562	563	564	565	566	567	568	569	570	571	572	573	574	575	576	577	578	579	580	581	582	583	584	585	586	587	588	589	590	591	592	593	594	595	596	597	598	599	600	601	602	603	604	605	606	607	608	609	610	611	612	613	614	615	616	617	618	619	620	621	622	623	624	625	626	627	628	629	630	631	632	633	634	635	636	637	638	639	640	641	642	643	644	645	646	647	648	649	650	651	652	653	654	655	656	657	658	659	660	661	662	663	664	665	666	667	668	669	670	671	672	673	674	675	676	677	678	679	680	681	682	683	684	685	686	687	688	689	690	691	692	693	694	695	696	697	698	699	700	701	702	703	704	705	706	707	708	709	710	711	712	713	714	715	716	717	718	719	720	721	722	723	724	725	726	727	728	729	730	731	732	733	734	735	736	737	738	739	740	741	742	743	744	745	746	747	748	749	750	751	752	753	754	755	756	757	758	759	760	761	762	763	764	765	766	767	768	769	770	771	772	773	774	775	776	777	778	779	780	781	782	783	784	785	786	787	788	789	790	791	792	793	794	795	796	797	798	799	800	801	802	803	804	805	806	807	808	809	810	811	812	813	814	815	816	817	818	819	820	821	822	823	824	825	826	827	828	829	830	831	832	833	834	835	836	837	838	839	840	841	842	843	844	845	846	847	848	849	850	851	852	853	854	855	856	857	858	859	860	861	862	863	864	865	866	867	868	869	870	871	872	873	874	875	876	877	878	879	880	881	882	883	884	885	886	887	888	889	890	891	892	893	894	895	896	897	898	899	900	901	902	903	904	905	906	907	908	909	910	911	912	913	914	915	916	917	918	919	920	921	922	923	924	925	926	927	928	929	930	931	932	933	934	935	936	937	938	939	940	941	942	943	944	945	946	947	948	949	950	951	952	953	954	955	956	957	958	959	960	961	962	963	964	965	966	967	968	969	970	971	972	973	974	975	976	977	978	979	980	981	982	983	984	985	986	987	988	989	990	991	992	993	994	995	996	997	998	999	1000	1001	1002	1003	1004	1005	1006	1007	1008	1009	1010	1011	1012	1013	1014	1015	1016	1017	1018	1019	1020	1021	1022	1023	1024	1025	1026	1027	1028	1029	1030	1031	1032	1033	1034	1035	1036	1037	1038	1039	1040	1041	1042	1043	1044	1045	1046	1047	1048	1049	1050	1051	1052	1053	1054	1055	1056	1057	1058	1059	1060	1061	1062	1063	1064	1065	1066	1067	1068	1069	1070	1071	1072	1073	1074	1075	1076	1077	1078	1079	1080	1081	1082	1083	1084	1085	1086	1087	1088	1089	1090	1091	1092	1093	1094	1095	1096	1097	1098	1099	1100	1101	1102	1103	1104	1105	1106	1107	1108	1109	1110	1111	1112	1113	1114	1115	1116	1117	1118	1119	1120	1121	1122	1123	1124	1125	1126	1127	1128	1129	1130	1131	1132	1133	1134	1135	1136	1137	1138	1139	1140	1141	1142	1143	1144	1145	1146	1147	1148	1149	1150	1151	1152	1153	1154	1155	1156	1157	1158	1159	1160	1161	1162	1163	1164	1165	1166	1167	1168	1169	1170	1171	1172	1173	1174	1175	1176	1177	1178	1179	1180	1181	1182	1183	1184	1185	1186	1187	1188	1189	1190	1191	1192	1193	1194	1195	1196	1197	1198	1199	1200	1201	1202	1203	1204	1205	1206	1207	1208	1209	1210	1211	1212	1213	1214	1215	1216	1217	1218	1219	1220	1221	1222	1223	1224	1225	1226	1227	1228	1229	1230	1231	1232	1233	1234	1235	1236	1237	1238	1239	1240	1241	1242	1243	1244	1245	1246	1247	1248	1249	1250	1251	1252	1253	1254	1255	1256	1257	1258	1259	1260	1261	1262	1263	1264	1265	1266	1267	1268	1269	1270	1271	1272	1273	1274	1275	1276	1277	1278	1279	1280	1281	1282	1283	1284	1285	1286	1287	1288	1289	1290	1291	1292	1293	1294	1295	1296	1297	1298	1299	1300	1301	1302	1303	1304	1305	1306	1307	1308	1309	1310	1311	1312	1313	1314	1315	1316	1317	1318	1319	1320	1321	1322	1323	1324	1325	1326	1327	1328	1329	1330	1331	1332	1333	1334	1335	1336	1337	1338	1339	1340	1341	1342	1343	1344	1345	1346	1347	1348	1349	1350	1351	1352	1353	1354	1355	1356	1357	1358	1359	1360	1361	1362	1363	1364	1365	1366	1367	1368	1369	1370	1371	1372	1373	1374	1375	1376	1377	1378	1379	1380	1381	1382	1383	1384	1385	1386	1387	1388	1389	1390	1391	1392	1393	1394	1395	1396	1397	1398	1399	1400	1401	1402	1403	1404	1405	1406	1407	1408	1409	1410	1411	1412	1413	1414	1415	1416	1417	1418	1419	1420	1421	1422	1423	1424	1425	1426	1427	1428	1429	1430	1431	1432	1433	1434	1435	1436	1437	1438	1439	1440	1441	1442	1443	1444	1445	1446	1447	1448	1449	1450	1451	1452	1453	1454	1455	1456	1457	1458	1459	1460	1461	1462	1463	1464	1465	1466	1467	1468	1469	1470	1471	1472	1473	1474	1475	1476	1477	1478	1479	1480	1481	1482	1483	1484	1485	1486	1487	1488	1489	1490	1491	1492	1493	1494	1495	1496	1497	1498	149
---	---	---	---	---	---	---	---	---	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	-----

504	10.8	54.0	37	6	AR120468	Sequence	AR120468	Sequence	c 577	10.6	54.0	44	6	EL0594	EL0594 PCR primer
c 505	10.8	54.0	38	6	AR045802	Sequence	AR045802	Sequence	c 578	10.6	54.0	44	6	124946	124946 Sequence 18
c 506	10.8	54.0	38	6	AR046839	Sequence	AR046839	Sequence	c 579	10.6	54.0	45	6	AR200543	AR200543 Sequence
c 507	10.8	54.0	38	6	AX219346	Sequence	AX219346	Sequence	580	10.6	54.0	45	6	AX184172	AX184172 Sequence
c 508	10.8	54.0	38	6	AX424463	Sequence	AX424463	Sequence	581	10.6	54.0	45	6	E22809	E22809 Method for
c 509	10.8	54.0	38	6	AX424867	Sequence	AX424867	Sequence	c 582	10.6	54.0	46	6	AR125164	AR125164 Sequence
c 510	10.8	54.0	38	6	152854	Sequence 59	152854	Sequence 59	583	10.6	54.0	46	6	AX190500	AX190500 Sequence
c 511	10.8	54.0	38	6	153891	Sequence 16	153891	Sequence 16	584	10.6	54.0	46	6	AX190507	AX190507 Sequence
c 512	10.8	54.0	40	6	AX014778	Sequence	AX014778	Sequence	585	10.6	54.0	46	6	AX190509	AX190509 Sequence
c 513	10.8	54.0	42	6	112092	Sequence 34	112092	Sequence 34	586	10.6	54.0	46	6	172416	172416 Sequence 25
c 514	10.8	54.0	44	6	AR060736	Sequence	AR060736	Sequence	587	10.6	54.0	46	6	172422	172422 Sequence 41
c 515	10.8	54.0	44	6	AR199384	Sequence	AR199384	Sequence	588	10.6	54.0	46	6	179568	179568 Sequence 13
c 516	10.8	54.0	44	12	XX071213	037123 RNA aptamer	037123 RNA aptamer		589	10.6	54.0	46	6	179576	179576 Sequence 21
c 517	10.8	54.0	45	6	AR099116	Sequence	AR099116	Sequence	590	10.6	54.0	48	6	AR096264	AR096264 Sequence
c 518	10.8	54.0	46	6	E10644	EL0644 linker 9/1	E10644 linker 9/1	c 591	10.6	54.0	48	6	113171	113171 Sequence 5	
c 519	10.8	54.0	48	6	AR2955	AR2955 Sequence 19	AR2955 Sequence 19	c 592	10.6	54.0	49	6	AR205576	AR205576 Sequence	
c 520	10.8	54.0	48	6	AR2956	AR2956 Sequence 19	AR2956 Sequence 19	593	10.6	54.0	49	6	AR076594	AR076594 Sequence	
c 521	10.8	54.0	50	6	AR199385	Sequence	AR199385	594	10.6	54.0	49	6	AX076594	AX076594 Sequence	
c 522	10.8	54.0	50	6	AR157716	Sequence	AR157716	595	10.6	54.0	49	6	AX190499	AX190499 Sequence	
c 523	10.6	53.0	17	6	AR192197	Sequence	AR192197	596	10.6	54.0	41	6	AR109123	AR109123 Sequence	
c 524	10.6	53.0	17	6	146524	146524 Sequence 50	146524 Sequence 50	c 597	10.6	54.0	42	6	AR200778	AR200778 Sequence	
c 525	10.6	53.0	18	6	AR106930	Sequence	AR106930	598	10.6	54.0	44	6	143201	143201 Sequence 19	
c 526	10.6	53.0	18	6	AX35080	Sequence	AX35080	599	10.6	54.0	44	6	AR205574	AR205574 Sequence	
c 527	10.6	53.0	19	12	AR068166	AR068166 Synthetic	AR068166 Synthetic	599	10.6	54.0	44	6	AX076592	AX076592 Sequence	
c 528	10.6	53.0	20	6	AR129532	Sequence	AR129532	c 600	10.6	53.0	44	6	143226	143226 Sequence 44	
c 529	10.6	53.0	20	6	AX292990	Sequence	AX292990	601	10.6	53.0	45	6	AX190495	AX190495 Sequence	
c 530	10.6	53.0	20	6	AX329295	Sequence	AX329295	c 602	10.6	53.0	45	6	125444	125444 Sequence 4	
c 531	10.6	53.0	20	12	AR068294	AR068294 Synthetic	AR068294 Synthetic	c 603	10.6	53.0	45	10	MMTCRC91	MMTCRC91	
c 532	10.6	53.0	21	6	A46640	A46640 Sequence 39	A46640 Sequence 39	604	10.6	54.0	46	6	A98782	A98782 Sequence 15	
c 533	10.6	53.0	21	6	AX095008	Sequence	AX095008	c 605	10.6	53.0	47	6	AR161535	AR161535 Sequence	
c 534	10.6	53.0	21	6	AR259691	Sequence	AR259691	c 606	10.6	53.0	48	6	AR161555	AR161555 Sequence	
c 535	10.6	53.0	22	6	AR207628	Sequence	AR207628	607	10.6	54.0	48	6	AX150279	AX150279 Sequence	
c 536	10.6	53.0	24	6	A11052	A11052 primer 1NA	A11052 primer 1NA	c 608	10.6	54.0	48	6	AX190498	AX190498 Sequence	
c 537	10.6	53.0	24	6	AR126825	Sequence	AR126825	c 609	10.6	54.0	48	6	AX451993	AX451993 Sequence	
c 538	10.6	53.0	24	6	AR137188	Sequence	AR137188	c 610	10.6	54.0	49	6	AR061800	AR061800 Sequence	
c 539	10.6	53.0	24	6	AR156009	Sequence	AR156009	c 611	10.6	53.0	50	6	AR138921	AR138921 Sequence	
c 540	10.6	53.0	24	6	AR288357	Sequence	AR288357	c 612	10.6	54.0	50	6	AX164955	AX164955 Sequence	
c 541	10.6	53.0	24	6	AX446407	Sequence	AX446407	c 613	10.4	52.0	15	6	139431	139431 Sequence 25	
c 542	10.6	53.0	24	6	E08662	E08662 PCR primer	E08662 PCR primer	614	10.4	52.0	16	6	AR106163	AR106163 Sequence	
c 543	10.6	53.0	24	6	172310	172310 Sequence 19	172310 Sequence 19	615	10.4	52.0	16	6	AX363183	AX363183 Sequence	
c 544	10.6	53.0	24	6	179564	179564 Sequence 9	179564 Sequence 9	c 616	10.4	52.0	16	6	AR068965	AR068965 Synthetic	
c 545	10.6	53.0	25	6	A18807	A18807 oligonucleo	A18807 oligonucleo	c 617	10.4	52.0	16	12	AR068965	AR068965 Synthetic	
c 546	10.6	53.0	25	6	AX005849	Sequence	AX005849	c 618	10.4	52.0	18	6	AR106787	AR106787 Sequence	
c 547	10.6	53.0	25	6	AX189385	Sequence	AX189385	c 619	10.4	52.0	18	6	S68596	S68596 McAD (YB242	
c 548	10.6	53.0	25	6	AX268976	Sequence	AX268976	c 620	10.4	52.0	19	6	AX130881	AX130881 Sequence	
c 549	10.6	53.0	26	3	GLT1EL9	X60427 G.Lanthia 1	X60427 G.Lanthia 1	c 621	10.4	52.0	19	6	AX130882	AX130882 Sequence	
c 550	10.6	53.0	26	6	AR017573	Sequence	AR017573	c 622	10.4	52.0	19	6	AX140883	AX140883 Sequence	
c 551	10.6	53.0	26	6	AR017586	Sequence	AR017586	623	10.4	52.0	19	12	AR069432	AR069432 Synthetic	
c 552	10.6	53.0	26	6	E28851	E28851 Process for	E28851 Process for	c 624	10.4	52.0	20	6	AL9980	AL9980 primer A 3.	
c 553	10.6	53.0	26	6	E61349	E61349 Probe for d	E61349 Probe for d	c 625	10.4	52.0	20	6	A76027	A76027 Sequence 6	
c 554	10.6	53.0	26	6	181318	181318 Sequence 19	181318 Sequence 19	c 626	10.4	52.0	20	6	AR163749	AR163749 Sequence	
c 555	10.6	53.0	27	6	AX115839	Sequence	AX115839	c 627	10.4	52.0	20	6	AX106720	AX106720 Sequence	
c 556	10.6	53.0	27	6	AX127479	Sequence	AX127479	c 628	10.4	52.0	20	6	AX149019	AX149019 Sequence	
c 557	10.6	53.0	27	6	AX190510	Sequence	AX190510	c 629	10.4	52.0	20	6	AX226142	AX226142 Sequence	
c 558	10.6	53.0	27	6	AX190511	Sequence	AX190511	c 630	10.4	52.0	20	6	AX295341	AX295341 Sequence	
c 559	10.6	53.0	30	6	AR000102	Sequence	AR000102	c 631	10.4	52.0	20	6	B0000483	B0000483 Process 1	
c 560	10.6	53.0	30	6	AR064925	Sequence	AR064925	c 632	10.4	52.0	20	6	B0012501	B0012501 Glutathione	
c 561	10.6	53.0	30	6	AR206866	Sequence	AR206866	c 633	10.4	52.0	20	23	B0005135	B0005135 Glutathione	
c 562	10.6	53.0	30	6	AX133984	Sequence	AX133984	c 634	10.4	52.0	21	6	A44831	A44831 Sequence 7	
c 563	10.6	53.0	30	6	AX136895	Sequence	AX136895	c 635	10.4	52.0	21	6	A58221	A58221 Sequence 51	
c 564	10.6	53.0	30	6	AX190502	Sequence	AX190502	c 636	10.4	52.0	21	6	A58223	A58223 Sequence 53	
c 565	10.6	53.0	30	6	AX236524	Sequence	AX236524	c 637	10.4	52.0	21	6	AR019240	AR019240 Sequence	
c 566	10.6	53.0	30	6	AX452884	Sequence	AX452884	c 638	10.4	52.0	21	6	AR050644	AR050644 Sequence	
c 567	10.6	53.0	30	6	B0006821	B0006821 N-Acetyl	B0006821 N-Acetyl	c 639	10.4	52.0	21	6	AR117339	AR117339 Sequence	
c 568	10.6	53.0	31	6	A84198	A84198 Sequence 23	A84198 Sequence 23	c 640	10.4	52.0	21	6	AR148291	AR148291 Sequence	
c 569	10.6	53.0	31	6	B0002404	B0002404 Gene comp	B0002404 Gene comp	c 641	10.4	52.0	21	6	AR178574	AR178574 Sequence	
c 570	10.6	53.0	31	6	B0002412	B0002412 Gene comp	B0002412 Gene comp	c 642	10.4	52.0	21	6	AX095183	AX095183 Sequence	
c 571	10.6	53.0	33	6	AX024204	Sequence	AX024204	c 643	10.4	52.0	21	6	136985	136985 Sequence 6	
c 572	10.6	53.0	33	6	AX080857	Sequence	AX080857	c 644	10.4	52.0	22	3	E1487562	E1487562 Cactin hab	
c 573	10.6	53.0	34	6	AX190501	Sequence	AX190501	c 645	10.4	52.0	22	6	AR038943	AR038943 Sequence	
c 574	10.6	53.0	34	6	AX190508	Sequence	AX190508	c 646	10.4	52.0	22	6	AR123433	AR123433 Sequence	
c 575	10.6	53.0	34	6	AR028348	Sequence	AR028348	c 647	10.4	52.0	22	6	AR206697	AR206697 Sequence	
c 576	10.6	53.0	34	6	AX180829	Sequence	AX180829	c 648	10.4	52.0	22	6	AX037539	AX037539 Sequence	
c 577	10.6	53.0	34	6				c 649	10.4	52.0	22	6	AX037545	AX037545 Sequence	

c 650	10.4	52.0	22	6	AX039891	Sequence	c 724	10.4	52.0	33	6	AR152025
c 651	10.4	52.0	22	6	AX241146	Sequence	c 724	10.4	52.0	33	6	AX317298
c 652	10.4	52.0	22	6	AX486803	Sequence	c 725	10.4	52.0	34	6	AX09169
c 653	10.4	52.0	24	6	AX37924	Sequence 1	c 726	10.4	52.0	34	6	AX05606
c 654	10.4	52.0	24	6	AX49391	Sequence 9	c 727	10.4	52.0	34	6	AX168006
c 655	10.4	52.0	24	6	AR176297	Sequence	c 728	10.4	52.0	34	6	AX168006
c 656	10.4	52.0	24	6	AX146765	Sequence	c 729	10.4	52.0	34	6	AX168006
c 657	10.4	52.0	24	6	AX207883	Sequence	c 730	10.4	52.0	34	6	AX168006
c 658	10.4	52.0	24	6	AX444614	Sequence	731	10.4	52.0	35	6	AX022477
c 659	10.4	52.0	24	6	AX447081	Sequence	732	10.4	52.0	35	6	AX064456
c 660	10.4	52.0	25	6	AR001365	Sequence	733	10.4	52.0	35	6	AX064456
c 661	10.4	52.0	25	6	AR044850	Sequence	734	10.4	52.0	35	6	AX064456
c 662	10.4	52.0	25	6	AR052236	Sequence	735	10.4	52.0	35	6	AX141811
c 663	10.4	52.0	25	6	AR078345	Sequence	736	10.4	52.0	35	6	AX141811
c 664	10.4	52.0	25	6	AR085196	Sequence	737	10.4	52.0	35	6	AX141811
c 665	10.4	52.0	25	6	AR148116	Sequence	738	10.4	52.0	35	6	AX151947
c 666	10.4	52.0	25	6	AX081681	Sequence	739	10.4	52.0	35	6	AX151947
c 667	10.4	52.0	25	6	AX081681	Sequence	740	10.4	52.0	35	6	AX151947
c 668	10.4	52.0	26	6	AR045215	Sequence	741	10.4	52.0	35	6	AX151947
c 669	10.4	52.0	26	6	AR068167	Sequence	742	10.4	52.0	36	6	AX151947
c 670	10.4	52.0	26	6	AR068168	Sequence	c 743	10.4	52.0	36	6	AX151947
c 671	10.4	52.0	26	6	AR091552	Sequence	c 744	10.4	52.0	36	6	AX151947
c 672	10.4	52.0	26	6	AX286813	Sequence	745	10.4	52.0	36	6	AX151947
c 673	10.4	52.0	26	6	AX449121	Sequence	c 746	10.4	52.0	36	6	AX151947
c 674	10.4	52.0	26	6	AX010800	Sequence	747	10.4	52.0	36	6	AX151947
c 675	10.4	52.0	26	6	AX12130	Sequence	c 748	10.4	52.0	36	6	AX151947
c 676	10.4	52.0	26	6	AX12130	Sequence	c 749	10.4	52.0	36	6	AX151947
c 677	10.4	52.0	26	6	AX12130	Sequence	c 750	10.4	52.0	36	6	AX151947
c 678	10.4	52.0	27	6	AX12130	Sequence	c 751	10.4	52.0	36	6	AX151947
c 679	10.4	52.0	27	6	AX12130	Sequence	c 752	10.4	52.0	36	6	AX151947
c 680	10.4	52.0	27	6	AX12130	Sequence	753	10.4	52.0	36	6	AX151947
c 681	10.4	52.0	27	6	AX12130	Sequence	c 754	10.4	52.0	36	6	AX151947
c 682	10.4	52.0	27	6	AX12130	Sequence	c 755	10.4	52.0	36	6	AX151947
c 683	10.4	52.0	27	6	AX12130	Sequence	c 756	10.4	52.0	36	6	AX151947
c 684	10.4	52.0	27	6	AX12130	Sequence	c 757	10.4	52.0	36	6	AX151947
c 685	10.4	52.0	27	6	AX12130	Sequence	c 758	10.4	52.0	36	6	AX151947
c 686	10.4	52.0	28	6	AX12130	Sequence	c 759	10.4	52.0	36	6	AX151947
c 687	10.4	52.0	28	6	AX12130	Sequence	760	10.4	52.0	36	6	AX151947
c 688	10.4	52.0	28	6	AX12130	Sequence	c 761	10.4	52.0	36	6	AX151947
c 689	10.4	52.0	28	6	AX12130	Sequence	c 762	10.4	52.0	36	6	AX151947
c 690	10.4	52.0	29	6	AX12130	Sequence	c 763	10.4	52.0	36	6	AX151947
c 691	10.4	52.0	30	6	AX12130	Sequence	c 764	10.4	52.0	36	6	AX151947
c 692	10.4	52.0	30	6	AX12130	Sequence	c 765	10.4	52.0	36	6	AX151947
c 693	10.4	52.0	30	6	AX12130	Sequence	c 766	10.4	52.0	36	6	AX151947
c 694	10.4	52.0	30	6	AX12130	Sequence	c 767	10.4	52.0	36	6	AX151947
c 695	10.4	52.0	30	6	AX12130	Sequence	c 768	10.4	52.0	36	6	AX151947
c 696	10.4	52.0	30	6	AX12130	Sequence	c 769	10.4	52.0	36	6	AX151947
c 697	10.4	52.0	30	6	AX12130	Sequence	770	10.4	52.0	36	6	AX151947
c 698	10.4	52.0	30	6	AX12130	Sequence	c 771	10.4	52.0	36	6	AX151947
c 699	10.4	52.0	30	6	AX12130	Sequence	c 772	10.4	52.0	36	6	AX151947
c 700	10.4	52.0	30	6	AX12130	Sequence	c 773	10.4	52.0	36	6	AX151947
c 701	10.4	52.0	30	6	AX12130	Sequence	c 774	10.4	52.0	36	6	AX151947
c 702	10.4	52.0	30	6	AX12130	Sequence	775	10.4	52.0	36	6	AX151947
c 703	10.4	52.0	30	6	AX12130	Sequence	c 776	10.4	52.0	36	6	AX151947
c 704	10.4	52.0	30	6	AX12130	Sequence	c 777	10.4	52.0	36	6	AX151947
c 705	10.4	52.0	31	6	AX12130	Sequence	c 778	10.4	52.0	36	6	AX151947
c 706	10.4	52.0	31	6	AX12130	Sequence	779	10.4	52.0	36	6	AX151947
c 707	10.4	52.0	31	6	AX12130	Sequence	780	10.4	52.0	36	6	AX151947
c 708	10.4	52.0	31	6	AX12130	Sequence	781	10.4	52.0	36	6	AX151947
c 709	10.4	52.0	31	6	AX12130	Sequence	782	10.4	52.0	36	6	AX151947
c 710	10.4	52.0	31	6	AX12130	Sequence	783	10.4	52.0	36	6	AX151947
c 711	10.4	52.0	31	6	AX12130	Sequence	784	10.4	52.0	36	6	AX151947
c 712	10.4	52.0	31	6	AX12130	Sequence	785	10.4	52.0	36	6	AX151947
c 713	10.4	52.0	31	6	AX12130	Sequence	786	10.4	52.0	36	6	AX151947
c 714	10.4	52.0	31	6	AX12130	Sequence	c 787	10.4	52.0	36	6	AX151947
c 715	10.4	52.0	31	6	AX12130	Sequence	788	10.4	52.0	36	6	AX151947
c 716	10.4	52.0	31	6	AX12130	Sequence	789	10.4	52.0	36	6	AX151947
c 717	10.4	52.0	31	6	AX12130	Sequence	790	10.4	52.0	36	6	AX151947
c 718	10.4	52.0	31	6	AX12130	Sequence	791	10.4	52.0	36	6	AX151947
c 719	10.4	52.0	31	6	AX12130	Sequence	792	10.4	52.0	36	6	AX151947
c 720	10.4	52.0	32	6	AX12130	Sequence	c 793	10.4	52.0	36	6	AX151947
c 721	10.4	52.0	32	6	AX12130	Sequence	794	10.4	52.0	36	6	AX151947
c 722	10.4	52.0	32	6	AX12130	Sequence	795	10.4	52.0	36	6	AX151947

c 796	10.4	52.0	45	6	AR149753	Sequence	869	10.2	51.0	21	6	AX147925	Sequence
c 797	10.4	52.0	45	6	E52000	Primer, 1	870	10.2	51.0	21	6	AX245400	Sequence
c 798	10.4	52.0	46	6	E08432	Human mRNA	c 871	10.2	51.0	21	6	AX400926	Sequence
c 799	10.4	52.0	47	9	H0M8PS	Human mRNA	c 872	10.2	51.0	21	6	E51272	Dissected
c 800	10.4	52.0	47	9	H0M8PS	Human mRNA	c 873	10.2	51.0	21	6	136955	Sequence
c 801	10.4	52.0	48	9	HS001257	Human sapi	c 874	10.2	51.0	22	4	H0VINE24	Sequence
c 802	10.4	52.0	48	9	HSTRK6X7	H. sapiens m	c 875	10.2	51.0	22	6	A58384	Sequence
c 803	10.4	52.0	48	9	HSTRK6X11	H. sapiens m	c 876	10.2	51.0	22	6	AR124291	Sequence
c 804	10.4	52.0	48	9	HSTRK6X16	H. sapiens m	c 877	10.2	51.0	22	6	AR211944	Sequence
c 805	10.4	52.0	48	9	HSTRK6X17	H. sapiens m	c 878	10.2	51.0	22	6	AX449630	Sequence
c 806	10.4	52.0	48	9	HSTRK6X7	H. sapiens m	c 879	10.2	51.0	22	6	H0004305	DNA encod
c 807	10.4	52.0	48	9	HSTRK6X11	H. sapiens m	c 880	10.2	51.0	22	6	H0004318	DNA encod
c 808	10.4	52.0	48	9	HSTRK6X16	H. sapiens m	c 881	10.2	51.0	22	6	E04777	Synthetic
c 809	10.4	52.0	48	9	HSTRK6X17	H. sapiens m	c 882	10.2	51.0	23	6	AR1700	Sequence
c 810	10.4	52.0	48	9	AX174843	Sequence	c 883	10.2	51.0	23	6	AR098936	Sequence
c 811	10.4	52.0	49	6	E62958	Novel polyp	c 884	10.2	51.0	23	6	AR124232	Sequence
c 812	10.4	52.0	49	6	E62959	Novel polyp	c 885	10.2	51.0	23	6	AR124263	Sequence
c 813	10.4	52.0	50	6	AR172670	Sequence	c 886	10.2	51.0	23	6	AR207792	Sequence
c 814	10.2	51.0	16	6	AR166761	Sequence	c 887	10.2	51.0	23	6	AX250620	Sequence
c 815	10.2	51.0	17	6	AR040315	Sequence	c 888	10.2	51.0	23	6	AX280077	Sequence
c 816	10.2	51.0	17	6	AR192196	Sequence	c 889	10.2	51.0	23	6	127402	Sequence
c 817	10.2	51.0	17	6	AR192198	Sequence	c 890	10.2	51.0	23	6	127435	Sequence
c 818	10.2	51.0	17	6	AR195725	Sequence	c 891	10.2	51.0	23	6	179776	Sequence
c 819	10.2	51.0	17	6	AR196314	Sequence	c 892	10.2	51.0	24	6	AR102917	Sequence
c 820	10.2	51.0	17	6	AR196316	Sequence	c 893	10.2	51.0	24	6	AR108096	Sequence
c 821	10.2	51.0	17	6	AX218129	Sequence	c 894	10.2	51.0	24	6	AR134744	Sequence
c 822	10.2	51.0	17	6	AX218277	Sequence	c 895	10.2	51.0	24	6	AR175448	Sequence
c 823	10.2	51.0	18	6	A52558	Sequence 7	c 896	10.2	51.0	24	6	AX057459	Sequence
c 824	10.2	51.0	18	6	A6542	Sequence 7	c 897	10.2	51.0	24	6	AX289421	Sequence
c 825	10.2	51.0	18	6	AR055761	Sequence	c 898	10.2	51.0	24	6	AX291440	Sequence
c 826	10.2	51.0	18	6	AR184406	Sequence	c 899	10.2	51.0	24	6	AX349069	Sequence
c 827	10.2	51.0	18	6	AX084916	Sequence	c 900	10.2	51.0	24	6	AX443242	Sequence
c 828	10.2	51.0	18	6	AX134715	Sequence	c 901	10.2	51.0	24	6	AX443246	Sequence
c 829	10.2	51.0	18	6	AX135940	Sequence	c 902	10.2	51.0	24	6	AX445165	Sequence
c 830	10.2	51.0	18	6	AX135941	Sequence	c 903	10.2	51.0	25	6	A40198	Sequence
c 831	10.2	51.0	18	6	AX177329	Sequence 8	c 904	10.2	51.0	25	6	AR019045	Sequence
c 832	10.2	51.0	18	6	158640	Sequence 8	c 905	10.2	51.0	25	6	AR035117	Sequence
c 833	10.2	51.0	19	6	AR102029	Sequence	c 906	10.2	51.0	25	6	AR124233	Sequence
c 834	10.2	51.0	19	6	AR119302	Sequence	c 907	10.2	51.0	25	6	AR124264	Sequence
c 835	10.2	51.0	19	6	AR134812	Sequence	c 908	10.2	51.0	25	6	AR135063	Sequence
c 836	10.2	51.0	19	6	AR164756	Sequence	c 909	10.2	51.0	25	6	AR146059	Sequence
c 837	10.2	51.0	19	6	AX129258	Sequence	c 910	10.2	51.0	25	6	AX035618	Sequence
c 838	10.2	51.0	19	6	AX129259	Sequence	c 911	10.2	51.0	25	6	AX093029	Sequence
c 839	10.2	51.0	19	6	AX129259	Sequence	c 912	10.2	51.0	25	6	AX278962	Sequence
c 840	10.2	51.0	20	6	A42092	Sequence 4	c 913	10.2	51.0	25	6	AX283624	Sequence
c 841	10.2	51.0	20	6	A42093	Sequence 5	c 914	10.2	51.0	25	6	E14458	PCR primer
c 842	10.2	51.0	20	6	A51386	Sequence 2	c 915	10.2	51.0	25	6	126640	Sequence
c 843	10.2	51.0	20	6	A51487	Sequence 4	c 916	10.2	51.0	25	6	127405	Sequence
c 844	10.2	51.0	20	6	A79832	Sequence 4	c 917	10.2	51.0	25	6	127438	Sequence
c 845	10.2	51.0	20	6	AR072265	Sequence	c 918	10.2	51.0	25	14	S59957	recombinat
c 846	10.2	51.0	20	6	AR076729	Sequence	c 919	10.2	51.0	26	6	AX038111	Sequence
c 847	10.2	51.0	20	6	AR177657	Sequence	c 920	10.2	51.0	26	6	AX134140	Sequence
c 848	10.2	51.0	20	6	AR177658	Sequence	c 921	10.2	51.0	27	6	A57176	Sequence
c 849	10.2	51.0	20	6	AR182786	Sequence	c 922	10.2	51.0	27	6	AR094093	Sequence
c 850	10.2	51.0	20	6	AR208759	Sequence	c 923	10.2	51.0	27	6	AX278296	Sequence
c 851	10.2	51.0	20	6	AX020057	Sequence	c 924	10.2	51.0	27	6	AX429462	Sequence
c 852	10.2	51.0	20	6	AX079143	Sequence	c 925	10.2	51.0	27	6	AX428391	Sequence
c 853	10.2	51.0	20	6	AX133293	Sequence	c 926	10.2	51.0	27	6	H0005759	Therapent
c 854	10.2	51.0	20	6	AX488210	Sequence	c 927	10.2	51.0	28	6	A97440	Sequence
c 855	10.2	51.0	20	6	E11282	PCR primer	c 928	10.2	51.0	28	6	AR164953	Sequence
c 856	10.2	51.0	20	6	E43264	Primer for	c 929	10.2	51.0	28	6	AR171736	Sequence
c 857	10.2	51.0	20	6	E43283	Primer for	c 930	10.2	51.0	28	6	AX259188	Sequence
c 858	10.2	51.0	20	6	126376	Sequence 68	c 931	10.2	51.0	28	6	H0013270	Mammose
c 859	10.2	51.0	21	6	AR036777	Sequence	c 932	10.2	51.0	28	6	F04843	Synthetic
c 860	10.2	51.0	21	6	AR124304	Sequence	c 933	10.2	51.0	28	24	H0010244	Mammose
c 861	10.2	51.0	21	6	AR144249	Sequence	c 934	10.2	51.0	29	6	AX467063	Sequence
c 862	10.2	51.0	21	6	AR147417	Sequence	c 935	10.2	51.0	29	6	E27650	Recombinat
c 863	10.2	51.0	21	6	AR209931	Sequence	c 936	10.2	51.0	30	6	AR035116	Sequence
c 864	10.2	51.0	21	6	AX026521	Sequence	c 937	10.2	51.0	30	6	AR084895	Sequence
c 865	10.2	51.0	21	6	AX096736	Sequence	c 938	10.2	51.0	40	6	AR094105	Sequence
c 866	10.2	51.0	21	6	AX119910	Sequence	c 939	10.2	51.0	40	6	AR117872	Sequence
c 867	10.2	51.0	21	6	AX119911	Sequence	c 940	10.2	51.0	40	6	AR157943	Sequence
c 868	10.2	51.0	21	6	AX147896	Sequence	c 941	10.2	51.0	40	6	AR173985	Sequence

```

c 942 10.2 51.0 40 6 AR177841
c 943 10.2 51.0 30 6 AX043040
c 944 10.2 51.0 30 6 AX464426
c 945 10.2 51.0 30 6 H0005771
c 946 10.2 51.0 30 6 F08898 Primer cpl1
c 947 10.2 51.0 30 6 E10063
c 948 10.2 51.0 30 6 172623
c 949 10.2 51.0 41 6 AR045251
c 950 10.2 51.0 41 6 AR171753
c 951 10.2 51.0 41 6 AX111912
c 952 10.2 51.0 41 6 AX249233
c 953 10.2 51.0 41 6 H0002583
c 954 10.2 51.0 41 6 152403
c 955 10.2 51.0 42 6 A56309
c 956 10.2 51.0 42 6 AR139096
c 957 10.2 51.0 42 6 AX374886
c 958 10.2 51.0 43 6 A59440
c 959 10.2 51.0 43 6 A59441
c 960 10.2 51.0 43 6 AR011809
c 961 10.2 51.0 33 6 AR051087
c 962 10.2 51.0 33 6 AR129027
c 963 10.2 51.0 33 6 AX045721
c 964 10.2 51.0 33 6 AX211683
c 965 10.2 51.0 33 6 AX418515
c 966 10.2 51.0 33 6 AX418596
c 967 10.2 51.0 33 6 109354
c 968 10.2 51.0 33 6 177132
c 969 10.2 51.0 43 6 191499
c 970 10.2 51.0 44 6 AX128307
c 971 10.2 51.0 45 6 AR161464
c 972 10.2 51.0 45 6 AX353675
c 973 10.2 51.0 45 6 AX353678
c 974 10.2 51.0 35 6 192423
c 975 10.2 51.0 35 6 1775912
c 976 10.2 51.0 36 6 FC088605
c 977 10.2 51.0 38 6 A10482
c 978 10.2 51.0 38 6 A13640
c 979 10.2 51.0 38 6 AX043848
c 980 10.2 51.0 38 6 AX360844
c 981 10.2 51.0 48 6 AX428212
c 982 10.2 51.0 48 6 H0010824
c 983 10.2 51.0 48 6 172518
c 984 10.2 51.0 49 6 HSC085704
c 985 10.2 51.0 40 6 AR029520
c 986 10.2 51.0 40 6 AR053616
c 987 10.2 51.0 40 6 AR055062
c 988 10.2 51.0 40 6 AR098473
c 989 10.2 51.0 40 6 AR135241
c 990 10.2 51.0 40 6 AR146727
c 991 10.2 51.0 40 6 AR152298
c 992 10.2 51.0 40 6 AR156311
c 993 10.2 51.0 40 6 AR157836
c 994 10.2 51.0 40 6 AX441399
c 995 10.2 51.0 40 6 AX453895
c 996 10.2 51.0 40 6 AX456421
c 997 10.2 51.0 40 6 141433
c 998 10.2 51.0 41 6 AR083751
c 999 10.2 51.0 41 6 AR109122
1000 10.2 51.0 41 6 AR200777

```

## ALIGNMENTS

```

RESULT 1
106215
LOCUS 106215 Sequence 1 from Patent EP 0293785, 36 bp DNA Linear PAT 02 DE3-1994
DEFINITION 106215
ACCESSION 106215
VERSION 106215.1 GI:590648
KEYWORDS
SOURCE unknown.
ORIGIN unknown.

```

```

Unclassified.
REFERENCE 1 (bases 1 to 46)
AUTHORS Parshio,A.F., Gentry,L., and Twardzik,D.
TITLE Cloning and expression of simian transforming growth factor beta 1
JOURNAL Patent: EP 0293785, AZ 1 07 DE3-1998;
FEATURES
Location/Qualifiers
BASE COUNT 9 a 10 c 9 q 8 t
ORIGIN
Query Match 100.0%; Score 20; DB 6; Length 46;
Best Local Similarity 100.0%; Pred. No. 9;9;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 GAGAGAGTCTTCCTGCTG3 20
11111111111111111111
Db 4 GAGAGAGTCTTCCTGCTG3 24
11111111111111111111
RESULT 2
106267
LOCUS 106267 46 bp DNA Linear PAT 02 DE3-1994
DEFINITION Sequence 1 from Patent EP 0373994.
ACCESSION 106267
VERSION 106267.1 GI:589016
KEYWORDS
SOURCE unknown.
ORIGIN unknown.
Unclassified.
REFERENCE 1 (bases 1 to 46)
AUTHORS Parshio,A.F., Gentry,L., Twardzik,D., and Brummer,A.M.
TITLE Cloning and expression of simian transforming growth factor beta 1
JOURNAL Patent: EP 0373994, AI 1 20 JUN 1990;
FEATURES
Location/Qualifiers
BASE COUNT 9 a 10 c 9 q 8 t
ORIGIN
Query Match 100.0%; Score 20; DB 6; Length 46;
Best Local Similarity 100.0%; Pred. No. 9;9;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 GAGAGAGTCTTCCTGCTG3 20
11111111111111111111
Db 4 GAGAGAGTCTTCCTGCTG3 24
11111111111111111111
RESULT 3
106666
LOCUS 106666 44 bp DNA Linear PAT 29 JUL 1993
DEFINITION Decoyl (noncloned) idr-beta L.F.
ACCESSION 106666
VERSION 106666.1 GI:412937
KEYWORDS
SOURCE Synthetic construct.
ORIGIN Synthetic construct.
FEATURES
Location/Qualifiers
BASE COUNT 10 a 8 c 14 q 12 t
ORIGIN
Query Match 92.0%; Score 18.4; DB 6; Length 44;
Best Local Similarity 95.0%; Pred. No. 74;
Matches 19; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
QY 1 GAGAGAGTCTTCCTGCTG3 20
11111111111111111111
Db 4 GAGAGAGTCTTCCTGCTG3 22
11111111111111111111

```

```

RESULT 4
AX018547/c
LOCUS AX018547 39 bp DNA linear PAT 07-SEP-2000
DEFINITION Sequence 41 from Patent W09945127.
ACCESSION AX018547
VERSION AX018547.1 GI:10042688
KEYWORDS
SOURCE synthetic construct.
ORGANISM synthetic construct.
REFERENCE
1 (bases 1 to 39)
AUTHORS Kingsman,S.M., Mitrophanous,K., Patterson,A.V., Stratford,I.J.,
Griffiths,I. and Kan,O.
TITLE Enhanced protein activation
JOURNAL PATENT: W0 9945127-A 41 10 SEP 1999;
KINGSMAN SUSAN MARY (GB); MITROPHANOUS KYRIACOS (GB); PATTERSON
ADAM VORN (GB); STRATFORD IAN JAMES (GB); GRIFFITHS LEIGH (GB); KAN
ON (GB); OXFORD BIOMEDICA LTD (GB)
FEATURES
location/Qualifiers
1..39
/organism "synthetic construct"
/db_xref "taxon:32630"
/note "primer"
BASE COUNT 13 a 6 c 16 q 4 t
ORIGIN
1 GAGAGTCTCTCTCCGCG 19
|||||
69 GAGAGGTTCTCTCTCCG 21

Query Match 79.0%; Score 15.8; Db 6; Length 39;
Best Local Similarity 89.5%; Pred. No. 2000;
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1 GAGAGTCTCTCTCCGCG 19
|||||
69 GAGAGGTTCTCTCTCCG 21

RESULT 5
AX018624/c
LOCUS AX018623 39 bp DNA linear PAT 07-SEP-2000
DEFINITION Sequence 41 from Patent W09945126.
ACCESSION AX018623
VERSION AX018623.1 GI:10042751
KEYWORDS
SOURCE synthetic construct.
ORGANISM synthetic construct.
REFERENCE
1 (bases 1 to 39)
AUTHORS Kingsman,S.M., Mitrophanous,K., Patterson,A.V., Stratford,I.J.,
Griffiths,I. and Kan,O.
TITLE Enhanced protein activation
JOURNAL PATENT: W0 9945126-A 41 10 SEP 1999;
KINGSMAN SUSAN MARY (GB); MITROPHANOUS KYRIACOS (GB); PATTERSON
ADAM VORN (GB); STRATFORD IAN JAMES (GB); GRIFFITHS LEIGH (GB); KAN
ON (GB); OXFORD BIOMEDICA LTD (GB)
FEATURES
location/Qualifiers
1..39
/organism "synthetic construct"
/db_xref "taxon:32630"
/note="primer"
BASE COUNT 13 a 6 c 16 q 4 t
ORIGIN
1 GAGAGTCTCTCTCCGCG 19
|||||
69 GAGAGGTTCTCTCTCCG 21

Query Match 79.0%; Score 15.8; Db 6; Length 39;
Best Local Similarity 89.5%; Pred. No. 2000;
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1 GAGAGTCTCTCTCCGCG 19
|||||
69 GAGAGGTTCTCTCTCCG 21

RESULT 6
AX018547/c
LOCUS AX018547 43 bp DNA linear PAT 02-JUL-2002
DEFINITION Sequence 13 from Patent W0209645.
ACCESSION AX018547
VERSION AX018547.1 GI:21690780
KEYWORDS
SOURCE synthetic construct.
ORGANISM synthetic construct.
REFERENCE
1
AUTHORS Wu,T.C. and Hung,C.F.
TITLE Interleukin transport protein linked to an antigen as a molecular
vaccine
JOURNAL PATENT: W0 0209645-A 13 07-FEB-2002;
The John Hopkins University (US)
FEATURES
location/Qualifiers
1..43
/organism "synthetic construct"
/db_xref "taxon:32630"
/note "primer"
BASE COUNT 4 a 18 c 7 q 14 t
ORIGIN
1 GAGAGTCTCTCTCCGCG 19
|||||
69 GAGAGGTTCTCTCTCCG 24

Query Match 79.0%; Score 15.8; Db 6; Length 43;
Best Local Similarity 89.5%; Pred. No. 2000;
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1 GAGAGTCTCTCTCCGCG 19
|||||
69 GAGAGGTTCTCTCTCCG 24

RESULT 7
AX018624/c
LOCUS AX018623 43 bp DNA linear PAT 02-JUL-2002
DEFINITION Sequence 14 from Patent W0209645.
ACCESSION AX018623
VERSION AX018623.1 GI:21690781
KEYWORDS
SOURCE synthetic construct.
ORGANISM synthetic construct.
REFERENCE
1
AUTHORS Wu,T.C. and Hung,C.F.
TITLE Interleukin transport protein linked to an antigen as a molecular
vaccine
JOURNAL PATENT: W0 0209645-A 14 07-FEB-2002;
The John Hopkins University (US)
FEATURES
location/Qualifiers
1..43
/organism "synthetic construct"
/db_xref "taxon:32630"
/note "primer"
BASE COUNT 14 a 7 c 18 q 4 t
ORIGIN
1 GAGAGTCTCTCTCCGCG 19
|||||
69 GAGAGGTTCTCTCTCCG 24

Query Match 79.0%; Score 15.8; Db 6; Length 43;
Best Local Similarity 89.5%; Pred. No. 2000;
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1 GAGAGTCTCTCTCCGCG 19
|||||
69 GAGAGGTTCTCTCTCCG 24

RESULT 8
AX018546
LOCUS AX018546 46 bp DNA linear PAT 07-SEP-2000
DEFINITION Sequence 40 from Patent W09945127.
ACCESSION AX018546
VERSION AX018546.1 GI:10042687
KEYWORDS
SOURCE synthetic construct.

```

ORGANISM Synthetic construct  
REFERENCE Artificial sequences.  
AUTHORS Kingsman, S.M., Mitrophanous, K., Patterson, A.V., Stratford, L.L., Griffiths, L. and Kan, Y.  
TITLE Enhanced product activation  
JOURNAL PATENT: WO 9945127-A 40 10-SEP-1999;  
KINGSMAN SUSAN MARY (GB); MITROPHANOUS KYRIAKOS (GB); PATTERSON ADAM VORN (GB); STRATFORD IAN JAMES (GB); GRIFFITHS LEIGH (GB); KAN ON (GB); OXFORD BIOMEDICA LTD (GB)  
FEATURES Location/Qualifiers  
source L..46  
BASE COUNT 4 a 19 c 9 g 14 t  
ORIGIN /organism "synthetic construct"  
/db\_xref "taxon:42640"  
/note "primer"

Query Match 79.0%; Score 15.8; DB 6; Length 46;  
Best Local Similarity 89.5%; Pred. No. 20003;  
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;  
QY 1 GACGAGTCTTCCTCCG 19  
Db 11 GACGAGTCTTCCTCCG 29

RESULT 9  
AX018622  
LOCUS AX018622 46 bp DNA Linear PAT 07-SEP-2000  
DEFINITION Sequence 40 from Patent W09945126.  
ACCESSION AX018622  
VERSION AX018622.1 GI:10042750  
KEYWORDS  
SOURCE Synthetic construct.  
ORGANISM Synthetic construct.  
REFERENCE 1 (bases 1 to 46)  
AUTHORS Kingsman, S.M., Mitrophanous, K., Patterson, A.V., Stratford, L.L., Griffiths, L. and Kan, Y.  
TITLE Enhanced product activation  
JOURNAL PATENT: WO 9945126-A 40 10-SEP-1999;  
KINGSMAN SUSAN MARY (GB); MITROPHANOUS KYRIAKOS (GB); PATTERSON ADAM VORN (GB); STRATFORD IAN JAMES (GB); GRIFFITHS LEIGH (GB); KAN ON (GB); OXFORD BIOMEDICA LTD (GB)  
FEATURES Location/Qualifiers  
source L..46  
BASE COUNT 4 a 19 c 9 g 14 t  
ORIGIN /organism "synthetic construct"  
/db\_xref "taxon:42640"  
/note "primer"

Query Match 79.0%; Score 15.8; DB 6; Length 46;  
Best Local Similarity 89.5%; Pred. No. 20003;  
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;  
QY 1 GACGAGTCTTCCTCCG 19  
Db 11 GACGAGTCTTCCTCCG 29

RESULT 10  
AF162485  
LOCUS AF162485 165 from patent US 6,258,600.  
DEFINITION Sequence 165 from patent US 6,258,600.  
ACCESSION AF162485  
VERSION AF162485.1 GI:16229689  
KEYWORDS  
SOURCE Unknown.  
ORGANISM Unknown.  
REFERENCE 1 (bases 1 to 20)

AUTHORS Zhang, H. and Cowsett, L.M.  
TITLE Antisense modulation of caspase 8 expression  
JOURNAL PATENT: US 6,966,600 A 165 10-JUL-2000;  
FEATURES Location/Qualifiers  
source L..20  
BASE COUNT 5 a 6 c 4 g 5 t  
ORIGIN /organism "unknown"

Query Match 69.0%; Score 14.8; DB 6; Length 20;  
Best Local Similarity 88.2%; Pred. No. 2,40004;  
Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;  
QY 4 GAGGCTTCCTCCG 20  
Db 4 GAGGCTTCCTCCG 20

RESULT 11  
AB098676  
LOCUS AB098676 21 bp DNA Linear PAT 21-JAN-2000  
DEFINITION Sequence 7 from Patent W09846788.  
ACCESSION AB098676  
VERSION AB098676.1 GI:6734126  
KEYWORDS  
SOURCE unidentified.  
ORGANISM unidentified.  
REFERENCE 1 (bases 1 to 21)  
AUTHORS Kuter, P., and Zipeletsky, A.  
TITLE NOVEL PRIMERS AND METHODS FOR THE DETECTION OF DISSEMINATED TUMOR CELLS  
JOURNAL PATENT: WO 9846788 A 7 22-OCT-1998;  
KUTER PETER (DE); MICROMET GMBH (DE)  
FEATURES Location/Qualifiers  
source L..21  
BASE COUNT 7 a 6 c 5 g 4 t  
ORIGIN /organism "unidentified"  
/db\_xref "taxon:42644"

Query Match 69.0%; Score 14.8; DB 6; Length 21;  
Best Local Similarity 88.2%; Pred. No. 2,40004;  
Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;  
QY 4 GAGGCTTCCTCCG 20  
Db 19 GAGGCTTCCTCCG 4

RESULT 12  
AB098676  
LOCUS AB098676 21 bp DNA Linear PAT 21-JAN-2000  
DEFINITION Sequence 17 from Patent W09846788.  
ACCESSION AB098676  
VERSION AB098676.1 GI:6734146  
KEYWORDS  
SOURCE unidentified.  
ORGANISM unidentified.  
REFERENCE 1 (bases 1 to 21)  
AUTHORS Kuter, P., and Zipeletsky, A.  
TITLE NOVEL PRIMERS AND METHODS FOR THE DETECTION OF DISSEMINATED TUMOR CELLS  
JOURNAL PATENT: WO 9846788 A 17 22-OCT-1998;  
KUTER PETER (DE); MICROMET GMBH (DE)  
FEATURES Location/Qualifiers  
source L..21  
BASE COUNT 7 a 6 c 5 g 4 t  
ORIGIN /organism "unidentified"  
/db\_xref "taxon:42644"



Query Match 69.0%; Score 13.8; DB 6; Length 21;  
 Best Local Similarity 88.2%; Pred. No. 2.4e+04;  
 Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 4 GAGATCTCTCTCGT 20  
 DB 19 GAGATCTCTCTCGT 4

RESULT 15  
 AX 91225/c  
 LOCUS AX91225 21 bp DNA linear PAT 24-MAR-2002  
 DEFINITION Sequence 71 from Patent EP1184460.  
 ACCESSION AX91225  
 VERSION AX91225.1 GI:19699899  
 KEYWORDS  
 SOURCE synthetic construct.  
 ORGANISM synthetic construct.  
 REFERENCE 1  
 AUTHORS van den Hombertgh, J.P., van der Laan, J.M., Menke, H.H. and Daran, J.M.  
 TITLE Modified fungal xylanases  
 JOURNAL Patent: EP 1184460-A 71 06-MAR-2002;  
 USM N.V. (NL)  
 FEATURES  
 location/Qualifiers  
 1..21  
 /organism "synthetic construct"  
 /db\_xref "taxon:42630"  
 /note "Primer"  
 BASE COUNT 6 a 4 c 7 q 4 t  
 ORIGIN

Query Match 67.0%; Score 13.4; DB 6; Length 21;  
 Best Local Similarity 93.4%; Pred. No. 4e+04;  
 Matches 14; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 4 GAGATCTCTCTCGT 18  
 DB 19 GAGATCTCTCTCGT 5

RESULT 14  
 AX 99550/c  
 LOCUS AX99550 21 bp DNA linear PAT 28 MAY-2002  
 DEFINITION Sequence 71 from Patent WO0218561.  
 ACCESSION AX99550  
 VERSION AX99550.1 GI:21262097  
 KEYWORDS  
 SOURCE synthetic construct.  
 ORGANISM synthetic construct.  
 REFERENCE 1  
 AUTHORS Van, D.H., van der Laan, J.M., Menke, H.H. and Daran, J.M.  
 TITLE Modified fungal xylanases  
 JOURNAL Patent: WO 0218561-A 71 07-MAR-2002;  
 USM N.V. (NL)  
 FEATURES  
 location/Qualifiers  
 1..21  
 /organism "synthetic construct"  
 /db\_xref "taxon:42630"  
 /note "Primer"  
 BASE COUNT 6 a 4 c 7 q 4 t  
 ORIGIN

Query Match 67.0%; Score 13.4; DB 6; Length 21;  
 Best Local Similarity 93.4%; Pred. No. 4e+04;  
 Matches 14; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 4 GAGATCTCTCTCGT 18  
 DB 19 GAGATCTCTCTCGT 5

RESULT 15  
 AX 91222  
 LOCUS AX91222 44 bp DNA linear PAT 23 MAR-2002  
 DEFINITION Sequence 68 from Patent EP1184460.  
 ACCESSION AX91222  
 VERSION AX91222.1 GI:19699896  
 KEYWORDS  
 SOURCE synthetic construct.  
 ORGANISM synthetic construct.  
 REFERENCE 1  
 AUTHORS van den Hombertgh, J.P., van der Laan, J.M., Menke, H.H. and Daran, J.M.  
 TITLE Modified fungal xylanases  
 JOURNAL Patent: EP 1184460-A 68 06-MAR-2002;  
 USM N.V. (NL)  
 FEATURES  
 location/Qualifiers  
 1..44  
 /organism "synthetic construct"  
 /db\_xref "taxon:42630"  
 /note "Primer"  
 BASE COUNT 6 a 11 c 8 q 6 t 2 others  
 ORIGIN

Query Match 67.0%; Score 13.4; DB 6; Length 44;  
 Best Local Similarity 93.4%; Pred. No. 4e+04;  
 Matches 14; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 4 GAGATCTCTCTCGT 18  
 DB 3 GAGATCTCTCTCGT 17

RESULT 16  
 AX 99547  
 LOCUS AX99547 33 bp DNA linear PAT 28-MAY-2002  
 DEFINITION Sequence 68 from Patent WO0218561.  
 ACCESSION AX99547  
 VERSION AX99547.1 GI:21262094  
 KEYWORDS  
 SOURCE synthetic construct.  
 ORGANISM synthetic construct.  
 REFERENCE 1  
 AUTHORS Van, D.H., van der Laan, J.M., Menke, H.H. and Daran, J.M.  
 TITLE Modified fungal xylanases  
 JOURNAL Patent: WO 0218561 A 68 07-MAR-2002;  
 USM N.V. (NL)  
 FEATURES  
 location/Qualifiers  
 1..33  
 /organism "synthetic construct"  
 /db\_xref "taxon:42630"  
 /note "Primer"  
 BASE COUNT 6 a 11 c 8 q 6 t 2 others  
 ORIGIN

Query Match 67.0%; Score 13.4; DB 6; Length 44;  
 Best Local Similarity 93.4%; Pred. No. 4e+04;  
 Matches 14; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 4 GAGATCTCTCTCGT 18  
 DB 3 GAGATCTCTCTCGT 17

RESULT 17  
 AX 91224  
 LOCUS AX91224 46 bp DNA linear PAT 23 MAR-2002  
 DEFINITION Sequence 69 from Patent EP1184460.  
 ACCESSION AX91224  
 VERSION AX91224.1 GI:19699897  
 KEYWORDS  
 SOURCE synthetic construct.  
 ORGANISM synthetic construct.

## artificial sequences.

REFERENCE 1  
 AUTHORS van den Bommert, J. P., van der Laan, J. M., Menke, H. H., and Baran, J. M.  
 TITLE Modified fungal xylanases  
 JOURNAL Patent: EP 1184460 A 69 06 MAR 2002;  
 USM N.V. (NL)

FEATURES  
 SOURCE Location/Qualifiers  
 1..36  
 /organism "Synthetic construct"  
 /db\_xref "taxon:42630"

BASE COUNT 8 a 12 c 8 q 6 t 2 others  
 ORIGIN

Query Match 67.0%; Score 13.4; DB 6; Length 36;

Best Local Similarity 93.8%; Pred. No. 4004; 1; Indels 0; Gaps 0;

Matches 14; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 4 GACGCTCTCTCGT 18

1111 11111111

1b 3 GACGACCTCTCGT 17

## RESULT 18

AX 99548

LOCUS AX99548

DEFINITION Sequence 69 from Patent W00218561.

ACCESSION AX99548

VERSION AX99548.1 GI:21262095

KEYWORDS

SOURCE

ORGANISM

artificial sequences.

## REFERENCE 1

AUTHORS Van, D. H., van der Laan, J. M., Menke, H. H., and Baran, J. M.

TITLE Modified fungal xylanases

JOURNAL Patent: W0 0218561 A 69 07 MAR 2002;

USM N.V. (NL)

FEATURES

SOURCE Location/Qualifiers

1..36

/organism "Synthetic construct"

/db\_xref "taxon:42630"

/note "Primer"

BASE COUNT 8 a 12 c 8 q 6 t 2 others

## ORIGIN

Query Match 67.0%; Score 13.4; DB 6; Length 36;

Best Local Similarity 93.8%; Pred. No. 4004; 1; Indels 0; Gaps 0;

Matches 14; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 4 GACGCTCTCTCGT 18

1111 11111111

1b 3 GACGACCTCTCGT 17

## RESULT 19

AX 991224

LOCUS AX991224

DEFINITION Sequence 70 from Patent EP1184460.

ACCESSION AX991224

VERSION AX991224.1 GI:19699898

KEYWORDS

SOURCE

ORGANISM

artificial sequences.

## REFERENCE 1

AUTHORS van den Bommert, J. P., van der Laan, J. M., Menke, H. H., and Baran, J. M.

TITLE Modified fungal xylanases

JOURNAL Patent: EP 1184460 A 70 06 MAR 2002;

USM N.V. (NL)

FEATURES

SOURCE Location/Qualifiers

1..39

/organism "Synthetic construct"

/db\_xref "taxon:42630"

/note "Primer"

BASE COUNT 8 a 12 c 9 q 8 t 2 others

## ORIGIN

Query Match 67.0%; Score 13.4; DB 6; Length 39;

Best Local Similarity 93.8%; Pred. No. 4004; 1; Indels 0; Gaps 0;

Matches 14; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 4 GACGCTCTCTCGT 18

1111 11111111

1b 3 GACGACCTCTCGT 17

## RESULT 20

AX 99549

LOCUS AX99549

DEFINITION Sequence 70 from Patent W00218561.

ACCESSION AX99549

VERSION AX99549.1 GI:21262096

KEYWORDS

SOURCE

ORGANISM

synthetic construct.

artificial sequences.

## REFERENCE 1

AUTHORS Van, D. H., van der Laan, J. M., Menke, H. H., and Baran, J. M.

TITLE Modified fungal xylanases

JOURNAL Patent: W0 0218561 A 70 07 MAR 2002;

USM N.V. (NL)

FEATURES

SOURCE Location/Qualifiers

1..39

/organism "Synthetic construct"

/db\_xref "taxon:42630"

BASE COUNT 8 a 12 c 9 q 8 t 2 others

## ORIGIN

Query Match 67.0%; Score 13.4; DB 6; Length 39;

Best Local Similarity 93.8%; Pred. No. 4004; 1; Indels 0; Gaps 0;

Matches 14; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 4 GACGCTCTCTCGT 18

1111 11111111

1b 3 GACGACCTCTCGT 17

## RESULT 21

AX 91206

LOCUS AX91206

DEFINITION Sequence 2424 from Patent W00130362.

ACCESSION AX91206

VERSION AX91206.1 GI:14147511

KEYWORDS

SOURCE

ORGANISM

human.

REFERENCE 1

AUTHORS Fukuyama, R.

TITLE Human

JOURNAL Patent: W0 0130362 A 24 24 03 MAY 2001;

USM N.V. (US)

FEATURES

SOURCE Location/Qualifiers

1..19

/organism "Homo sapiens"

/db\_xref "taxon:9606"

/note "cyelin F ribozyme binding site"

BASE COUNT 5 a 6 c 3 q 5 t

## ORIGIN

Query Match 66.0%; Score 13.2; DB 6; Length 19;

Best Local Similarity 83.8%; Pred. No. 9,1004;



